R E P O R T R E S U M E S

ED 003 744 64

INSTRUMENTATION FOR INSTRUCTION, 1955-70, VOL. 7--PICTURES.

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NATIONAL EDUCATION ASSN., WASHINGTON, D.C.

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ED003744

B-069

FINAL REPORT

TECHNOLOGICAL DEVELOPMENT PROJECT

INSTRUMENTATION FOR INSTRUCTION: 1955-1970

Draft Copy for Editing

VOLUME VII - PICTURES

Ch. ____ Page ____

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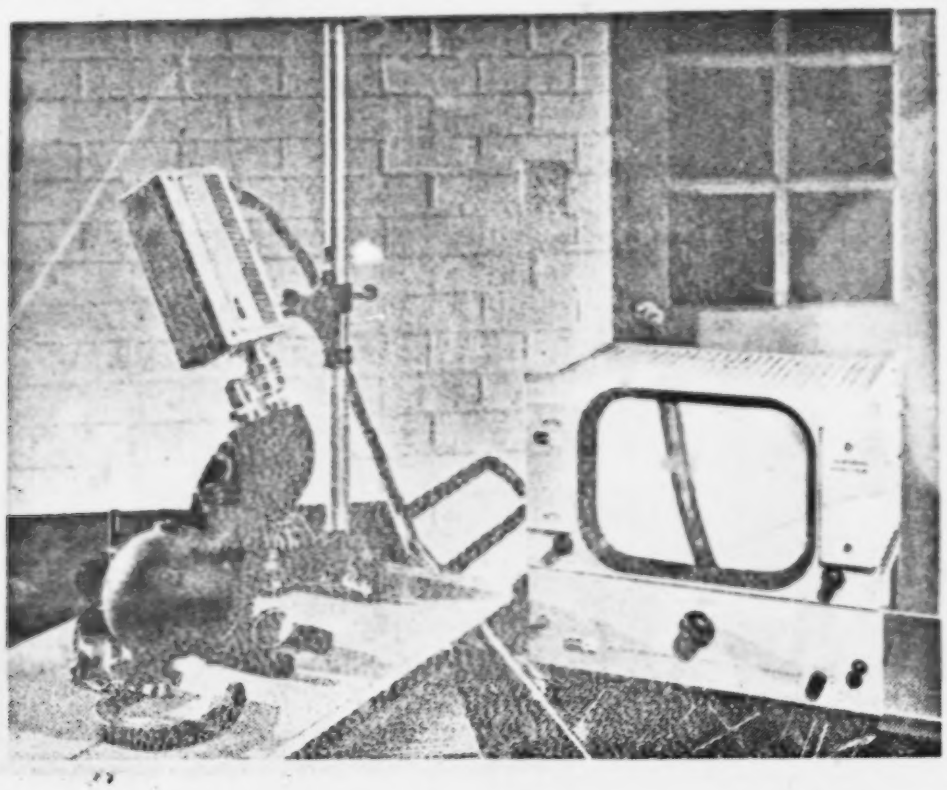


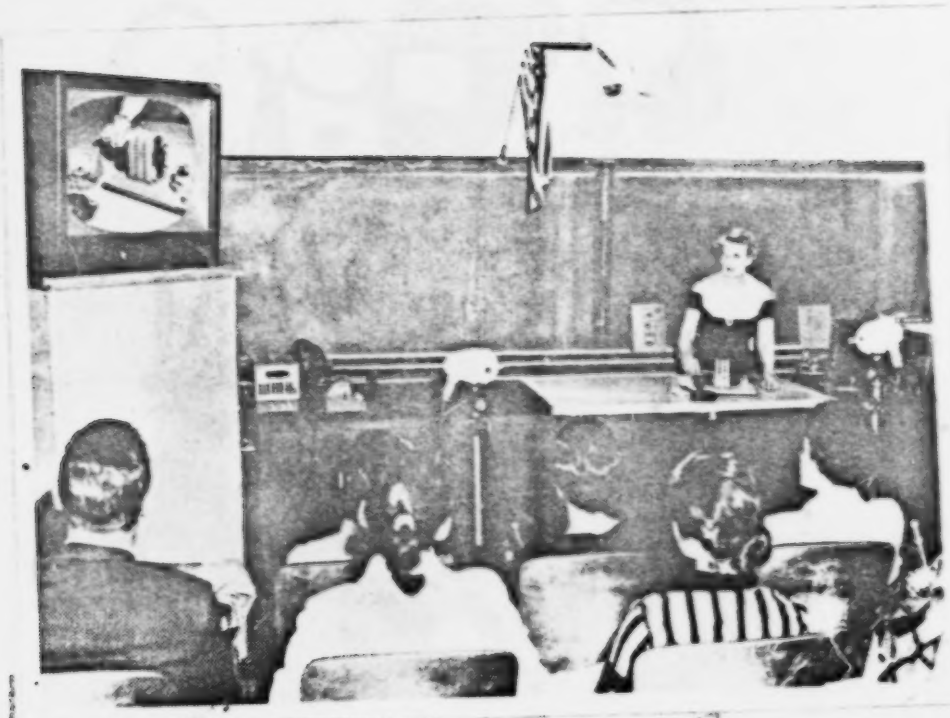
KINTEL

Pic 283

TV for classroom demonstrations
All students share the most favored viewpoint.

Neg No. 1126

Ch._____ Page _____



L.C.

Fig 284 — TV DEMONSTRATIONS are magnified for all to see

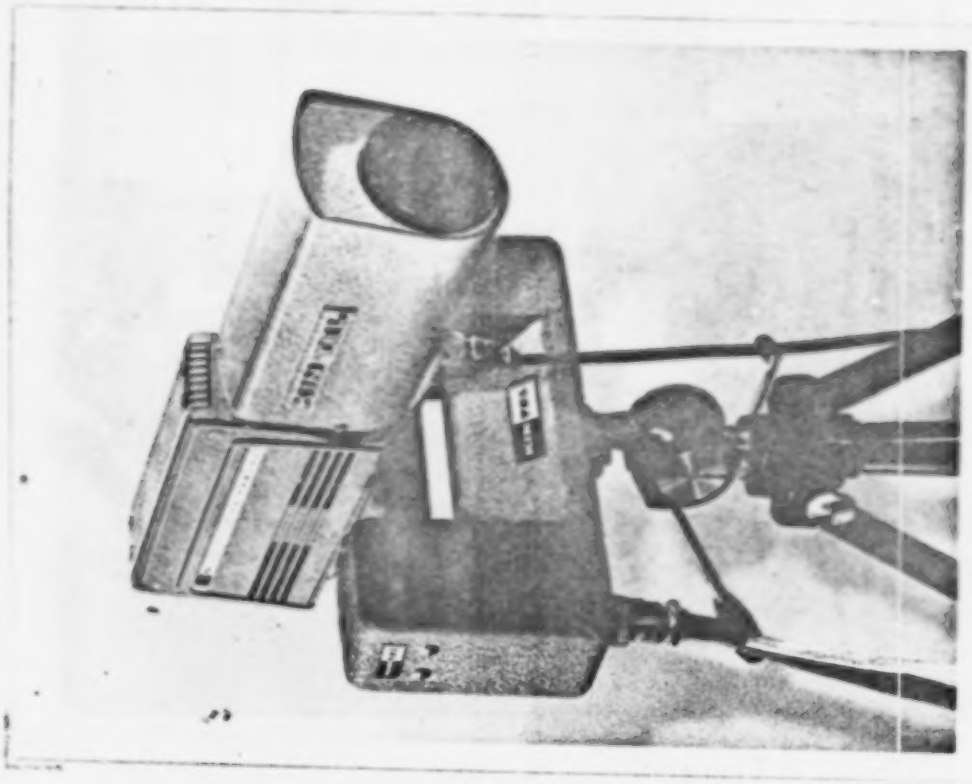
Neg. No. 689 1127

MINTEL

Fig 184a

typical equipment used in a closed circuit system

Ch_____ Page _____



Top

Fig 285

KINTEL — remote pan-tilt, focus, and zoom allows teacher to control the presentation

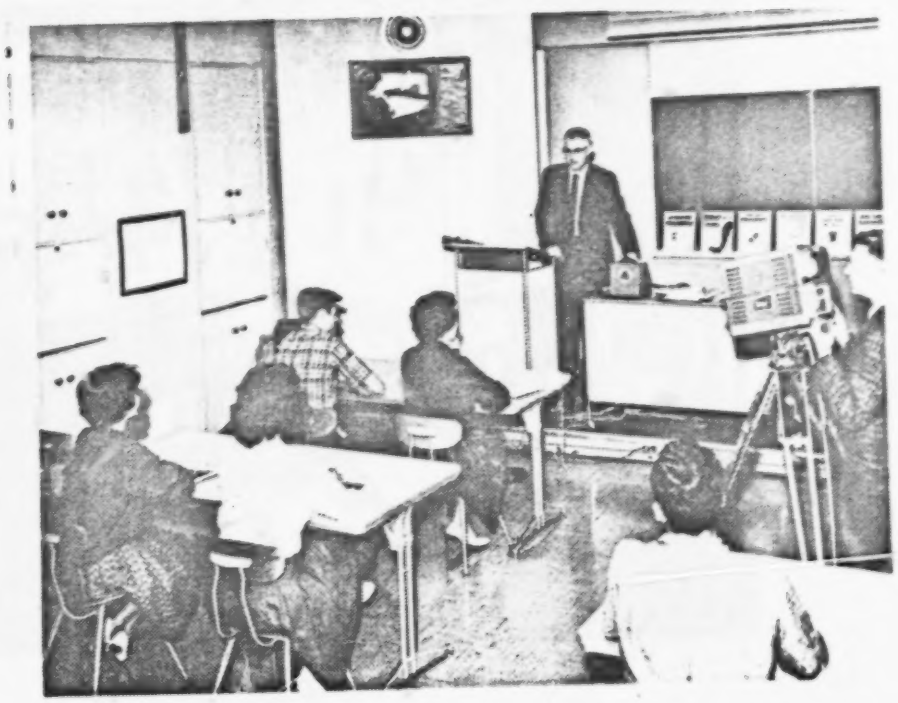
Neg. No. 1129

GENERAL PRECISION — Televising in a regular classroom

Fig 286

Reg. No 1130 ~~709~~

Ch._____ Page _____



Experimental TV classroom at UNIV So. CALIF. —

Pic 286 a

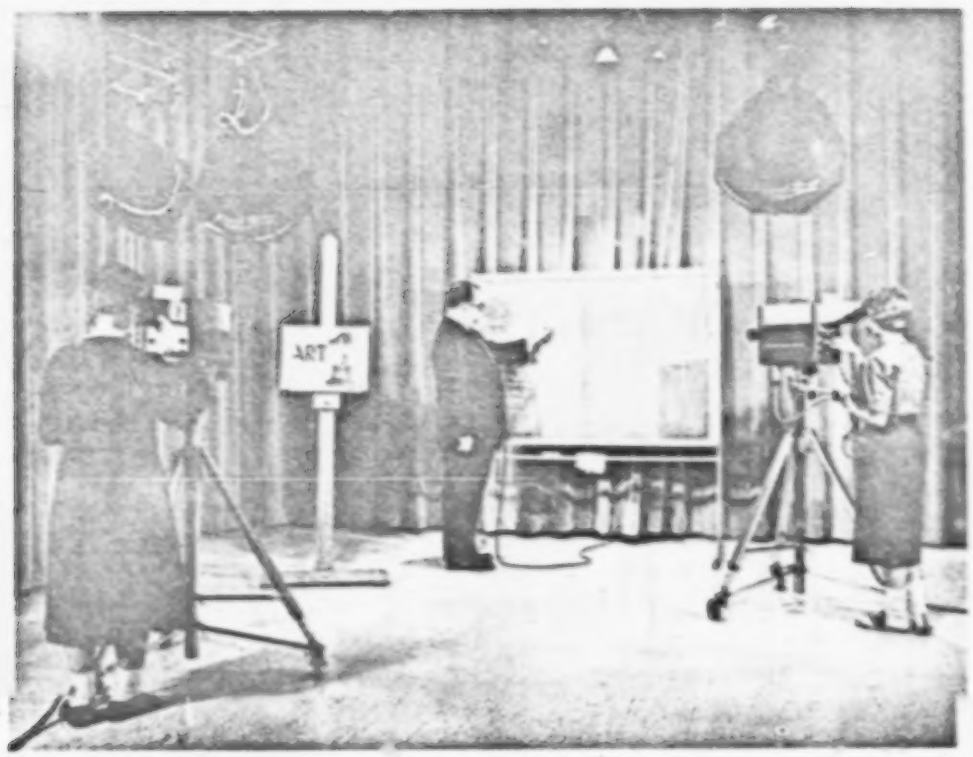
Neg No 186

Fig 287

SIEGLER — television studio for Anaheim closed circuit system

Neg. No. 254

Ch._____ Page _____



~~CPL~~ General Precision

Fig 288 a university studio originates programs for internal use

Neg No. ~~639~~ 1131

Ch._____ Page _____

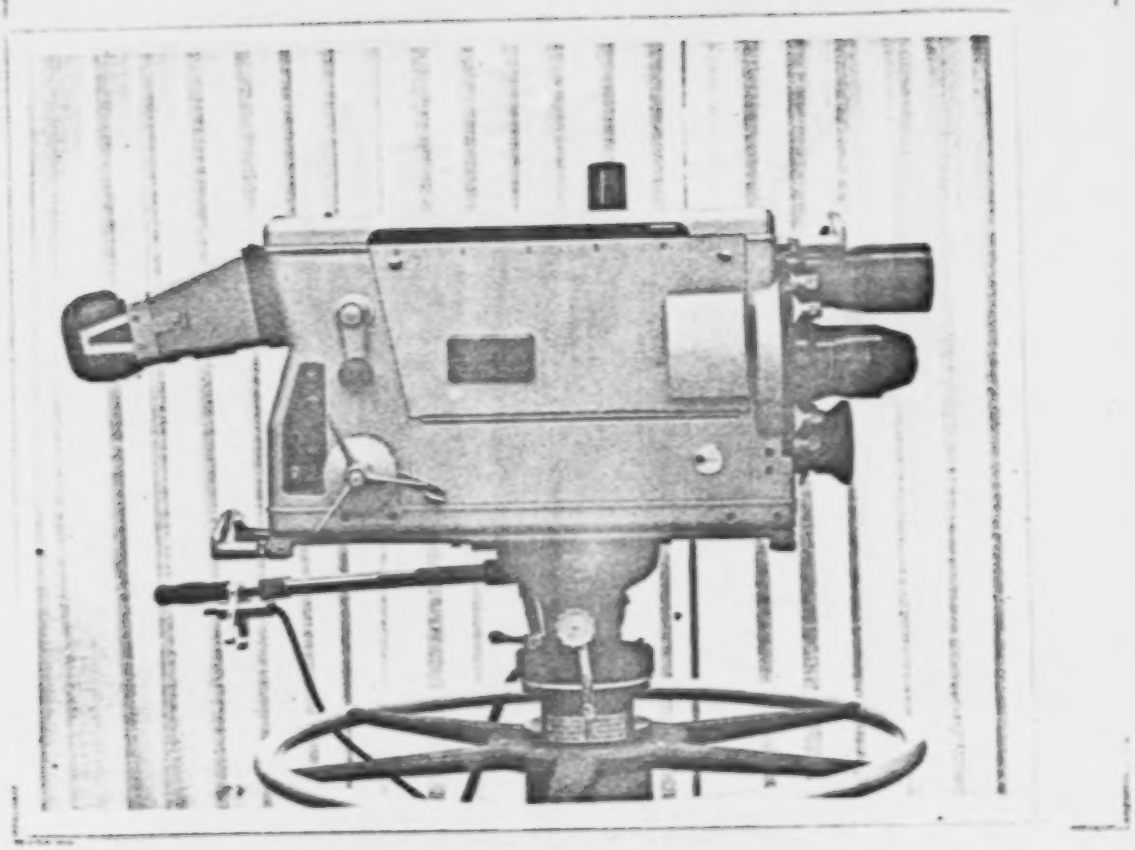


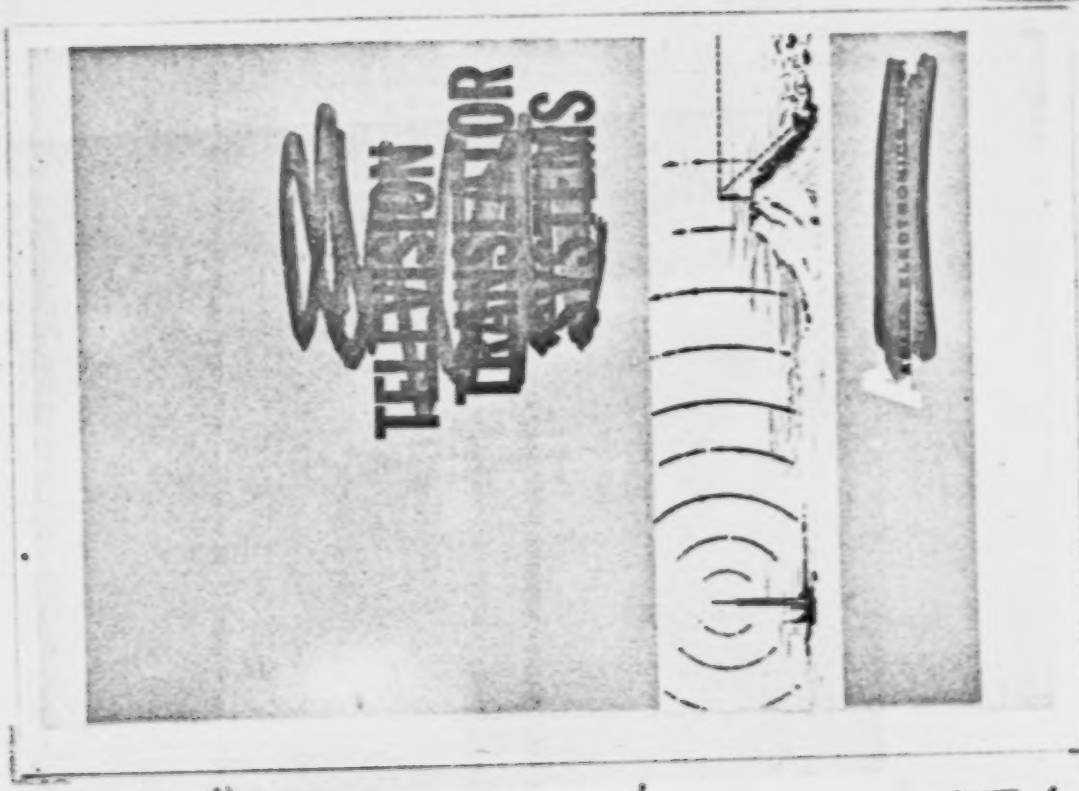
Fig 289

MARCONI ~~CAMERA~~ —
studio type camera used by
~~the~~ commercial broadcasters

Neg. No. ~~709~~ 1132

Ch._____ Page _____

get permission to use



ADLER — TV Translator systems serve fringe and shadow areas

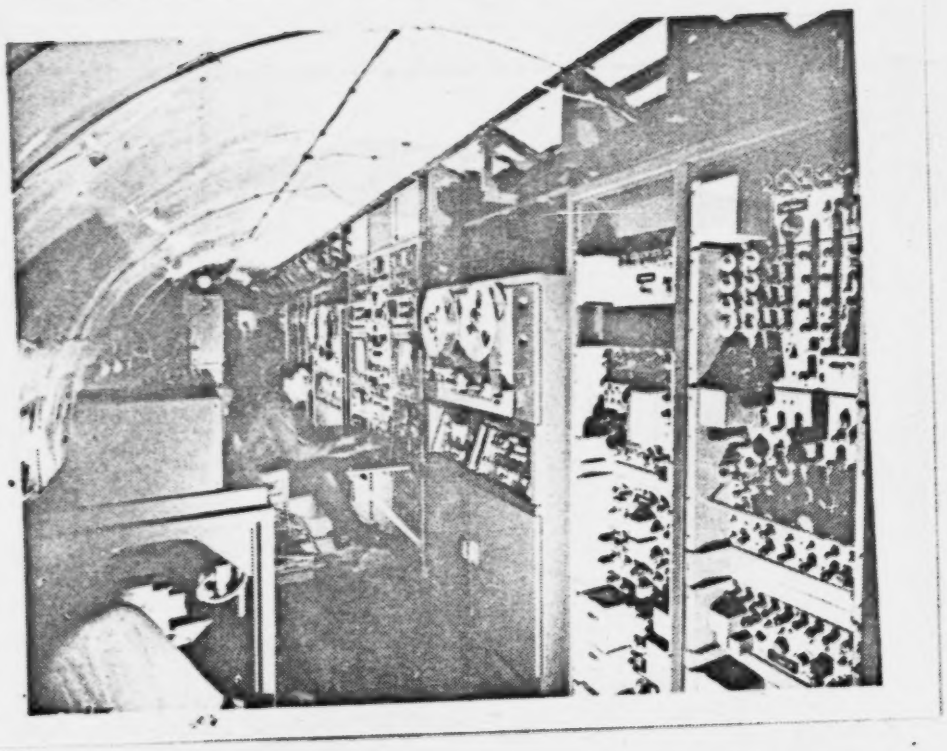
Fig 290

Neg. No. 439

WESTINGHOUSE -- air borne television

Fig 291

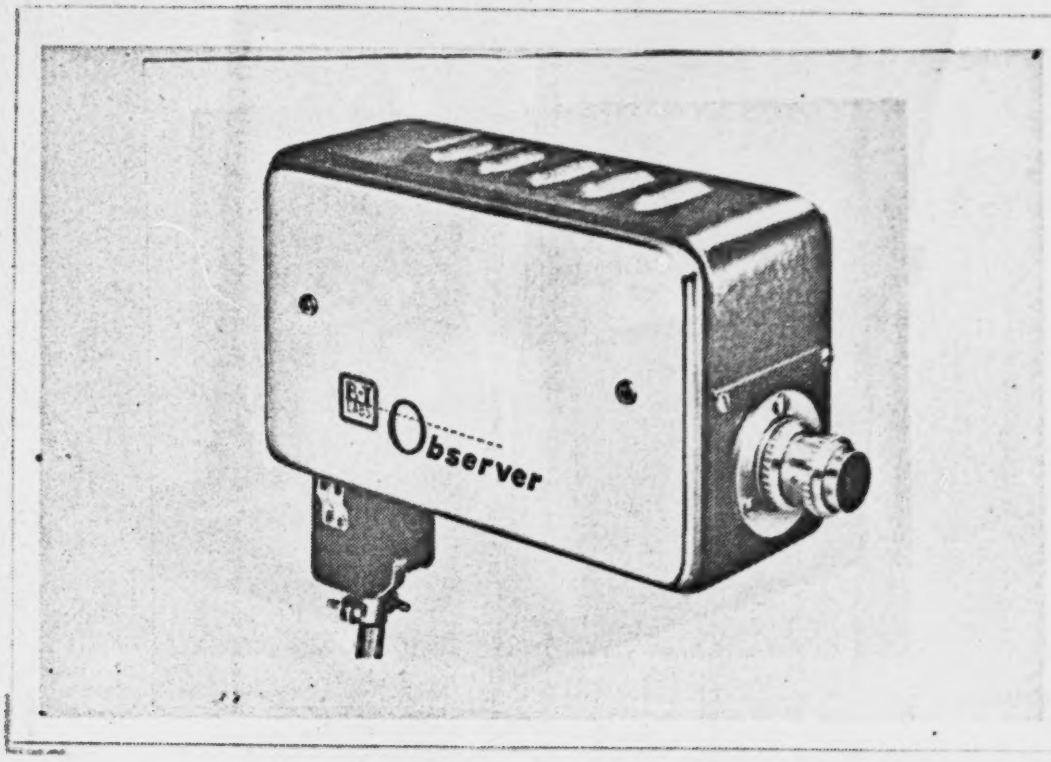
Neg. No. 251



WESTINGHOUSE — transmitter in plane broadcasts from video tape

Fig 292

Neg. No. 252

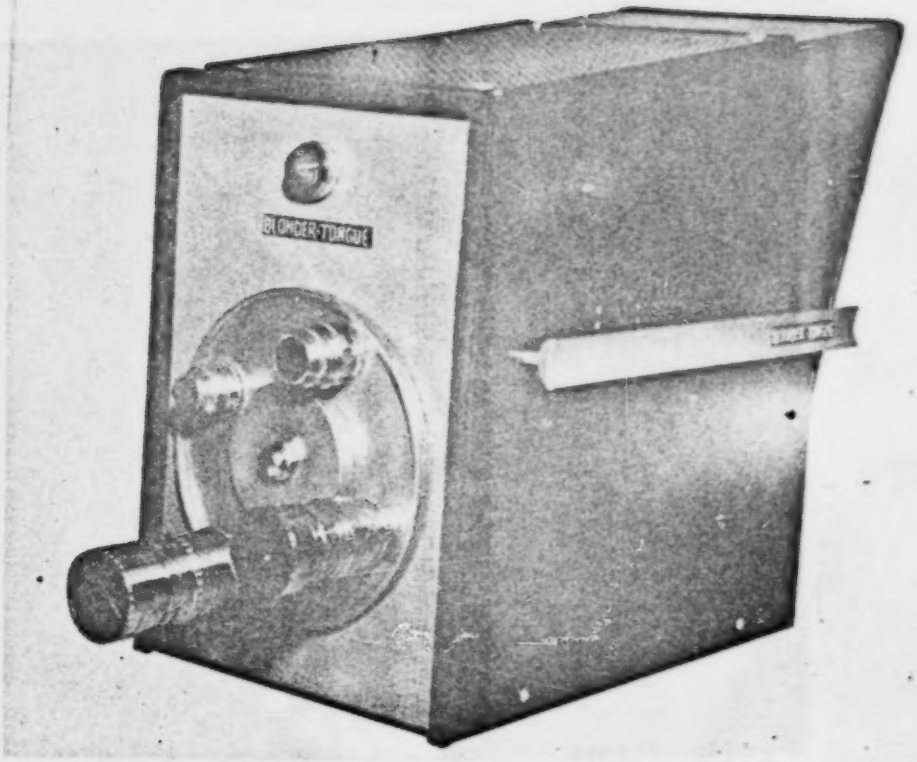


BLONDER TONGUE

Fig 293

Neg. No. 515

Ch._____ Page_____



BLONDER TONGUE

Fig 294

Neg. No. 1133

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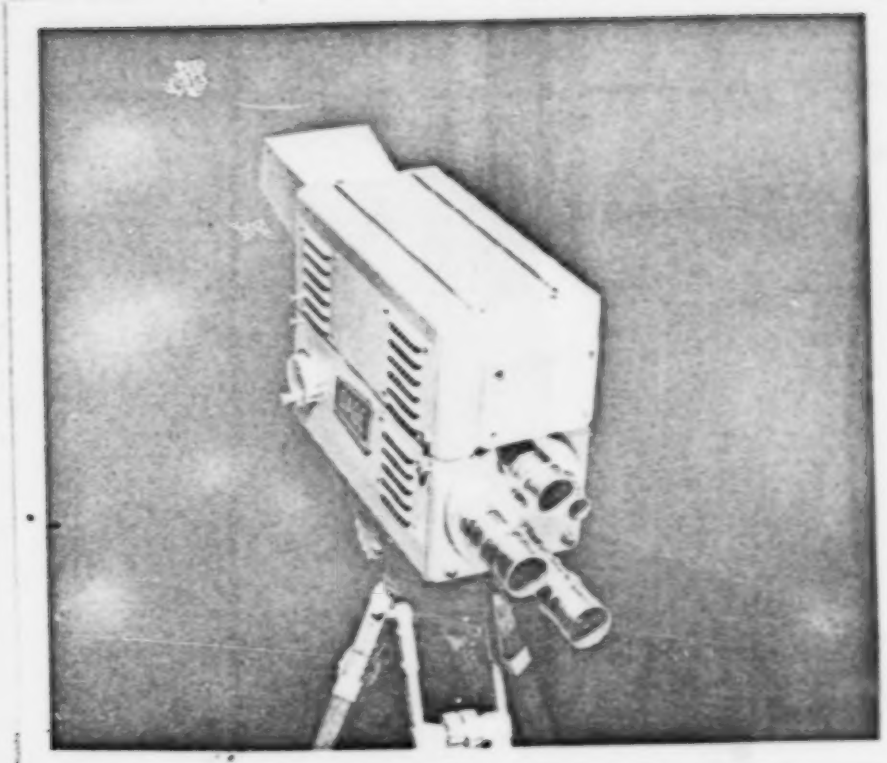
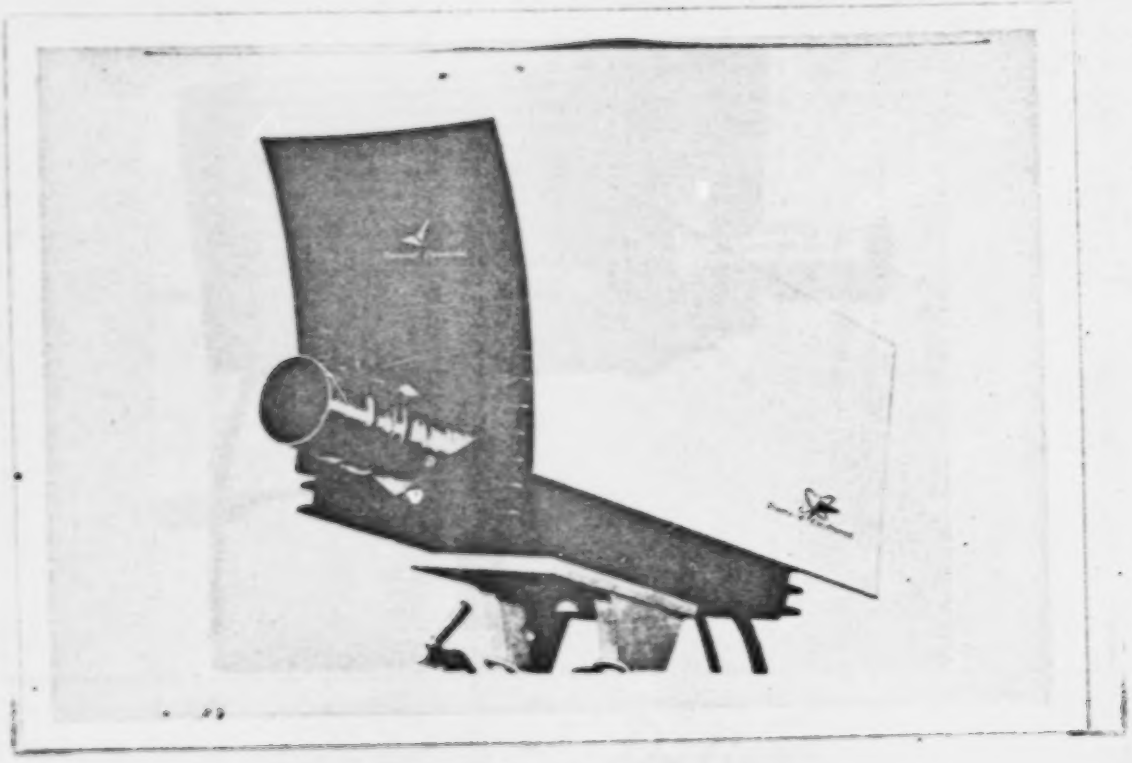


DAGE

FIG 296

1134

Neg. No 690



DIAMOND

Fig. 297

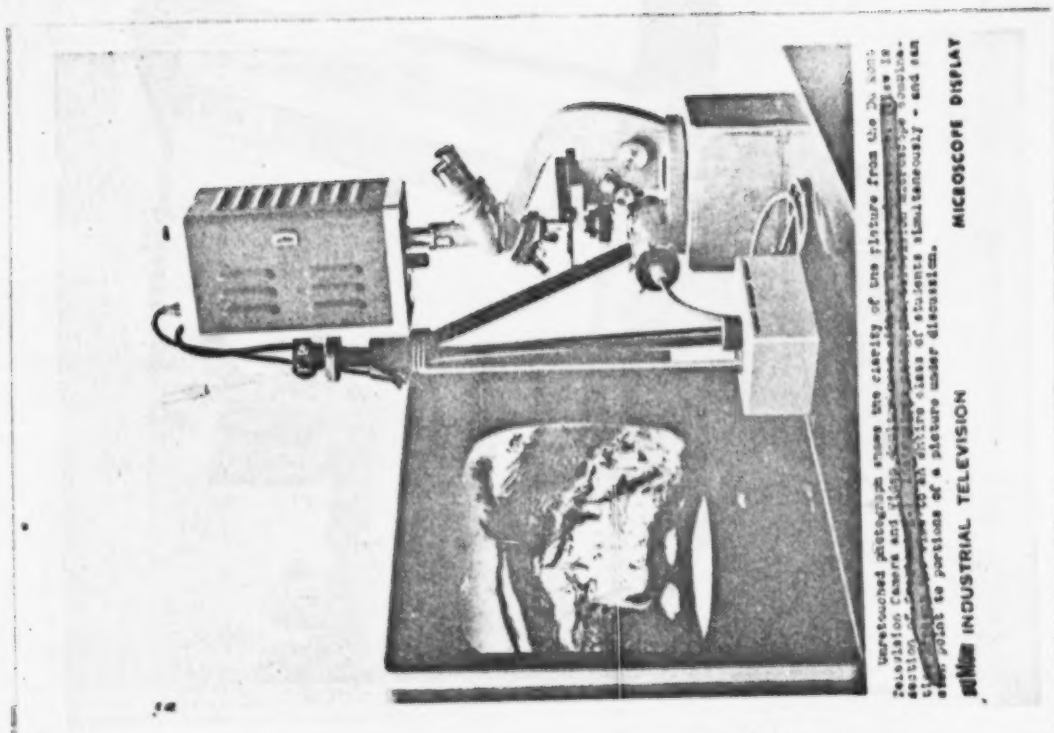
Neg. No. 535

DU MONT

FIG 299

Neg. No 709 1136

Ch._____ Page _____



Du Mont

Fig 300

Neg. No. 274

Ch._____ Page_____

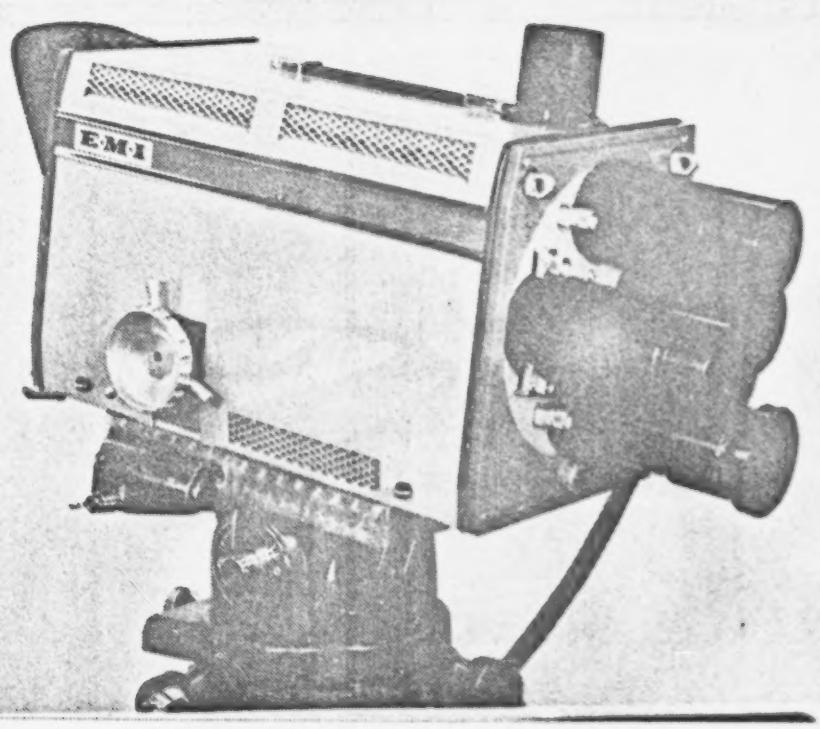
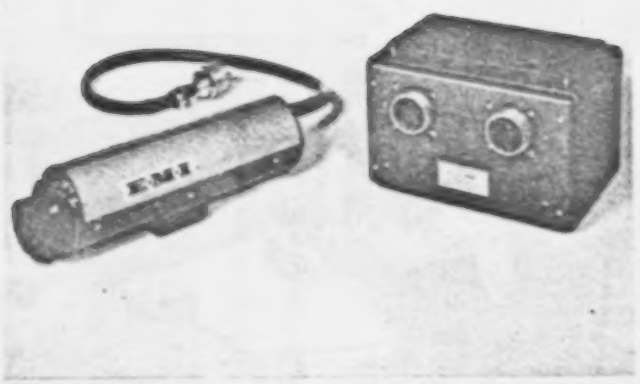


Fig 301 Electra Magadyne Inc

Neg. No. 1258



FAIRBANKS MORSE

Fig 302

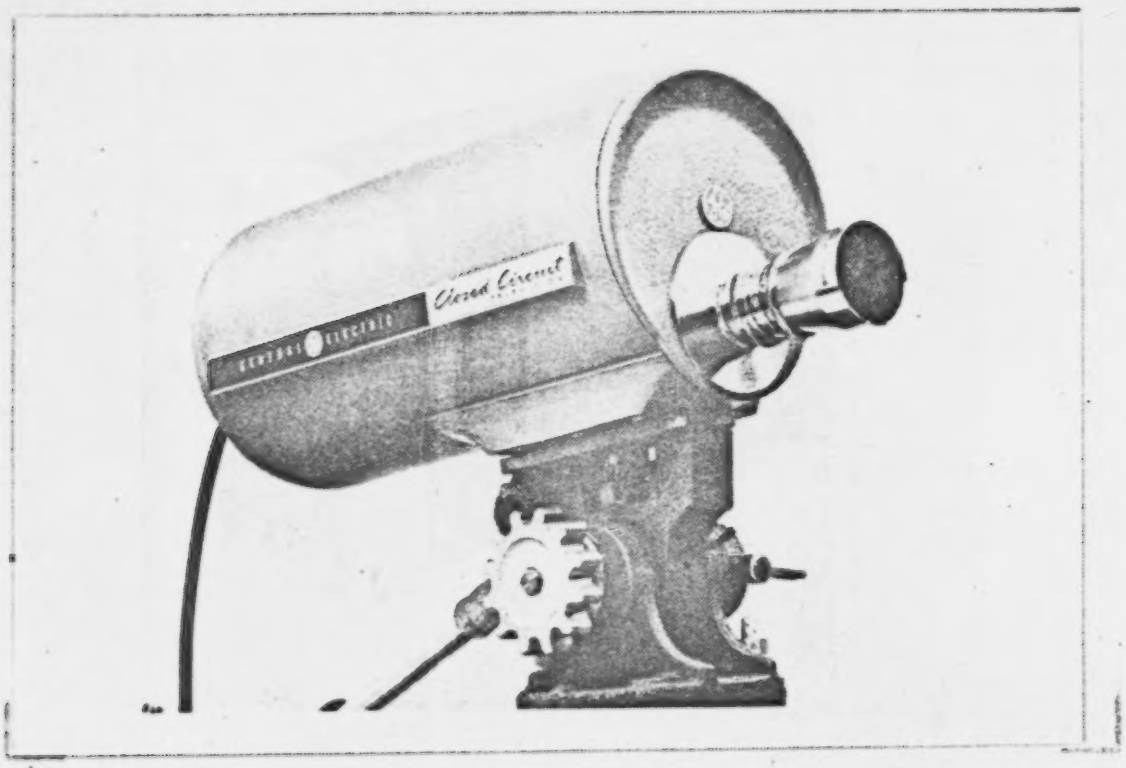
Neg No 432

Ch. _____ Page _____

GENERAL ELECTRIC

Fig 303a

Reg. No. 1137



GENERAL ELECTRIC

Fig 303

Neg. No. 272

Ch._____ Page_____

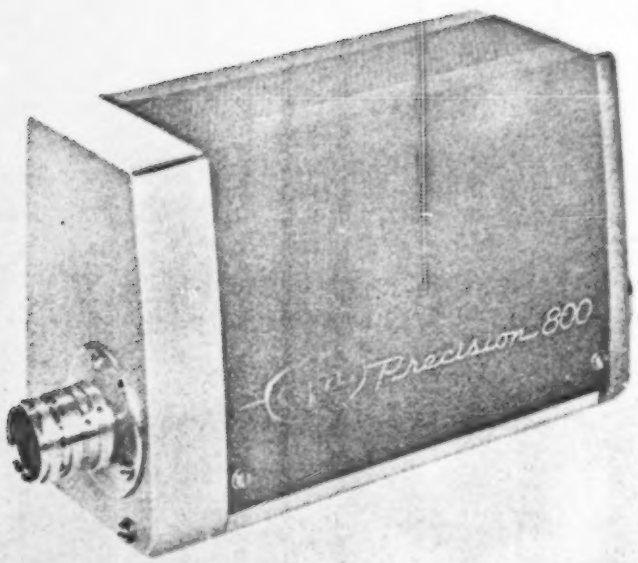
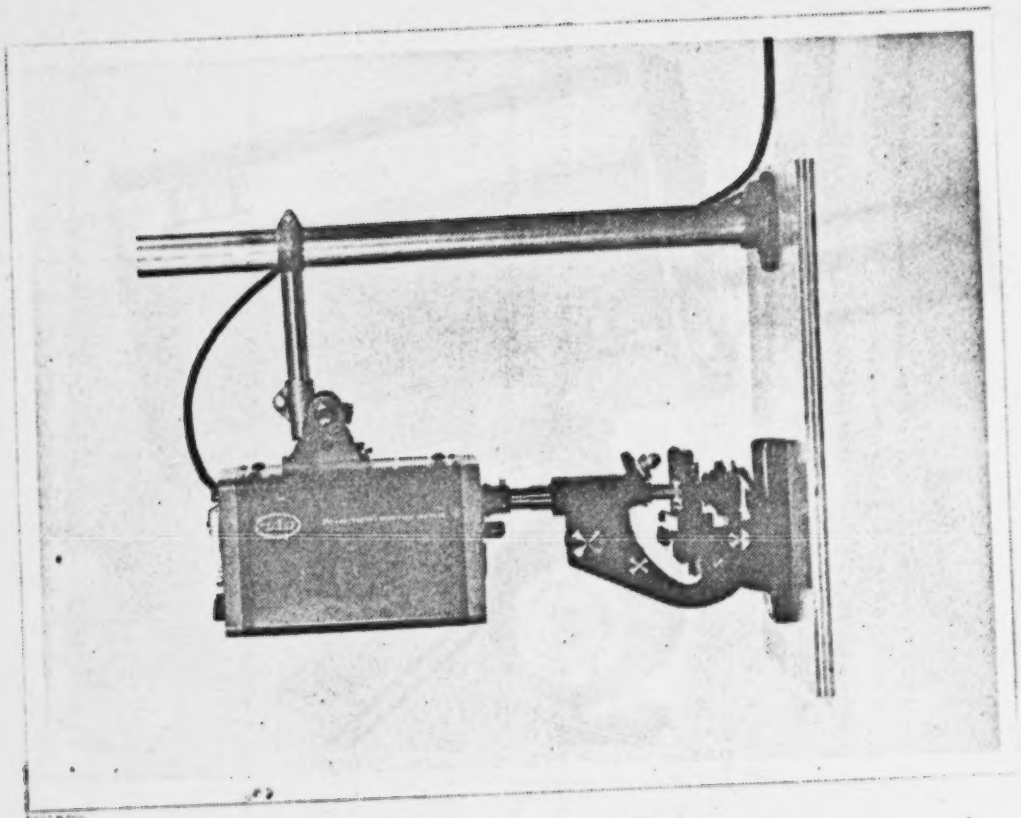


Fig 3044a ~~G.P.L.~~
General Precision Laboratories

Neg. No 1259

Ch _____ Page _____



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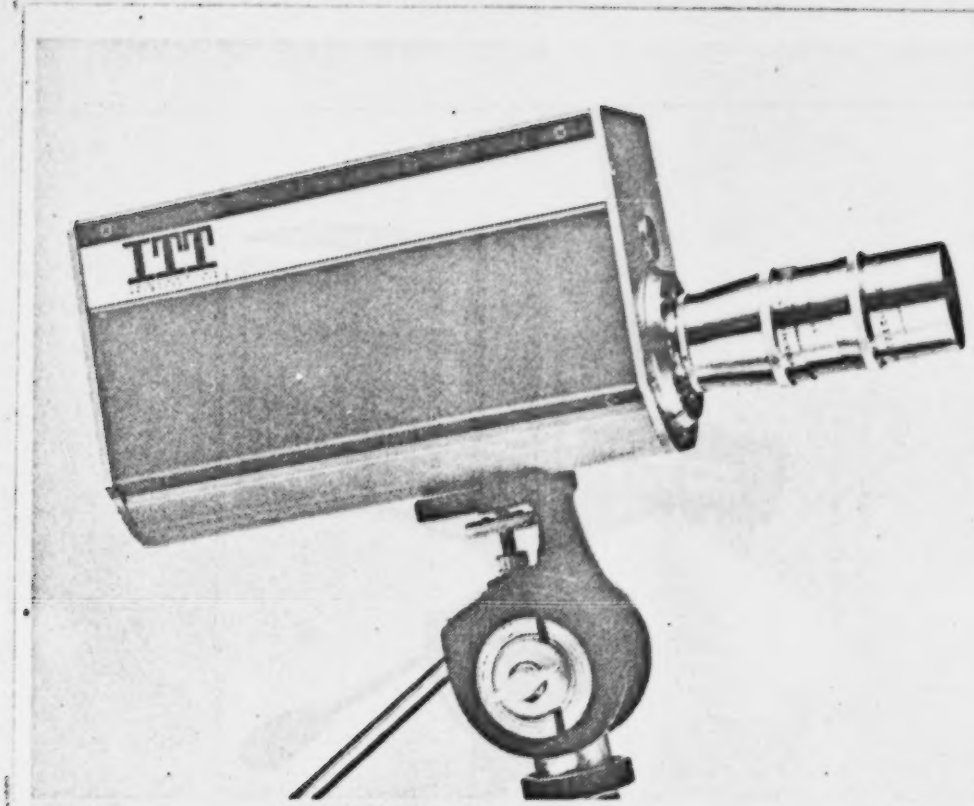
GENERAL PRECISION

Fig 304

Neg. No. ~~689~~ 1138

Ch._____ Page _____



INTERNATIONAL TELEPHONE
& TELEGRAPH

Fig 305

Neg. No. 6201139

Ch _____ Page _____

KINTEL

FIG. 307

NOR. NO. 269

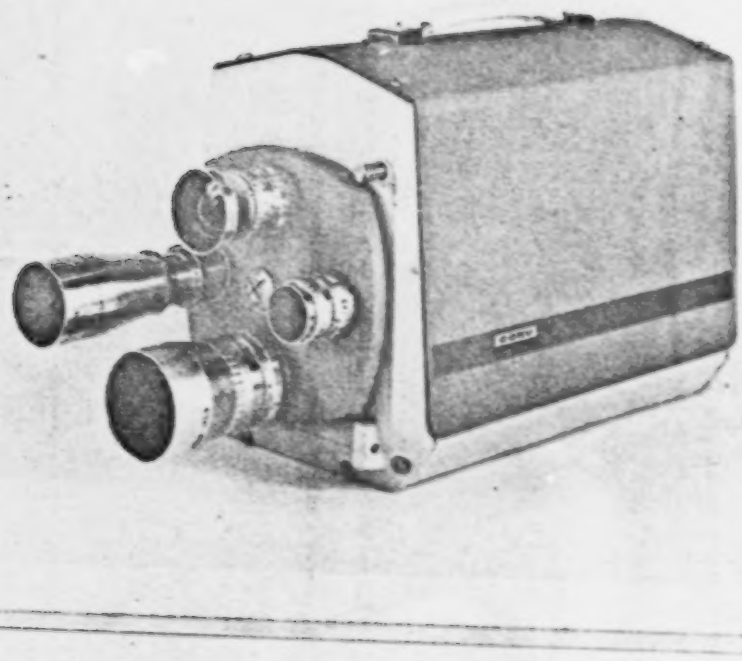


Fig 302a Cabo Electronics Inc, Kintel Div.

Neg. No. 1260

Ch._____ Page_____

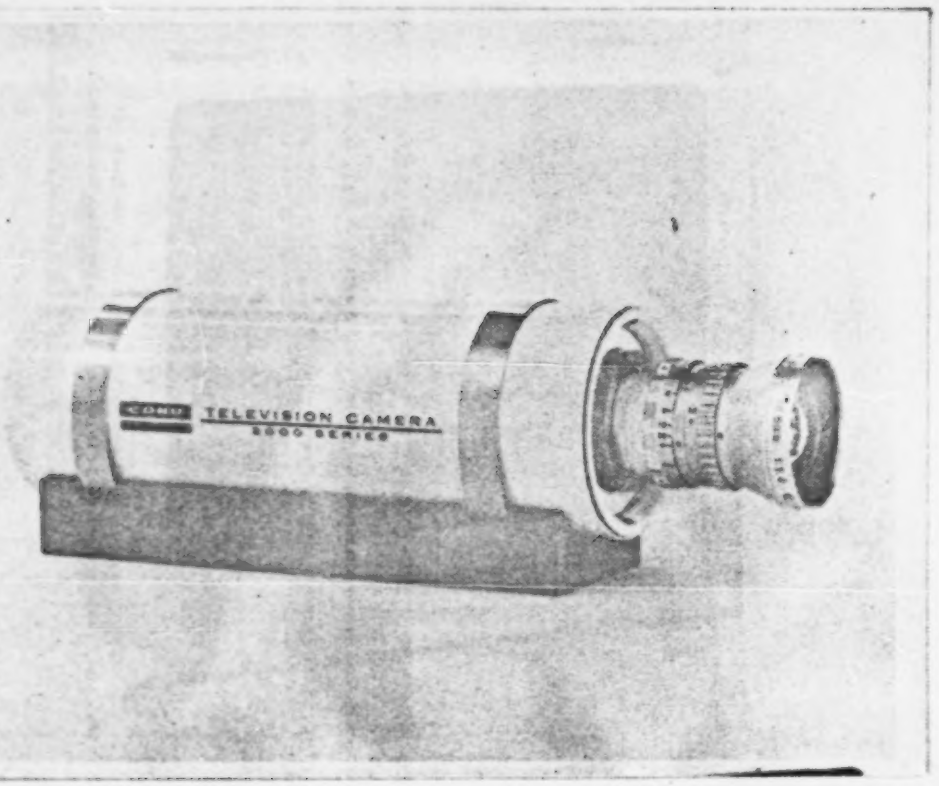


Fig 307B COHU, Kintel Div.

Neg. No._____

Ch._____ Page_____

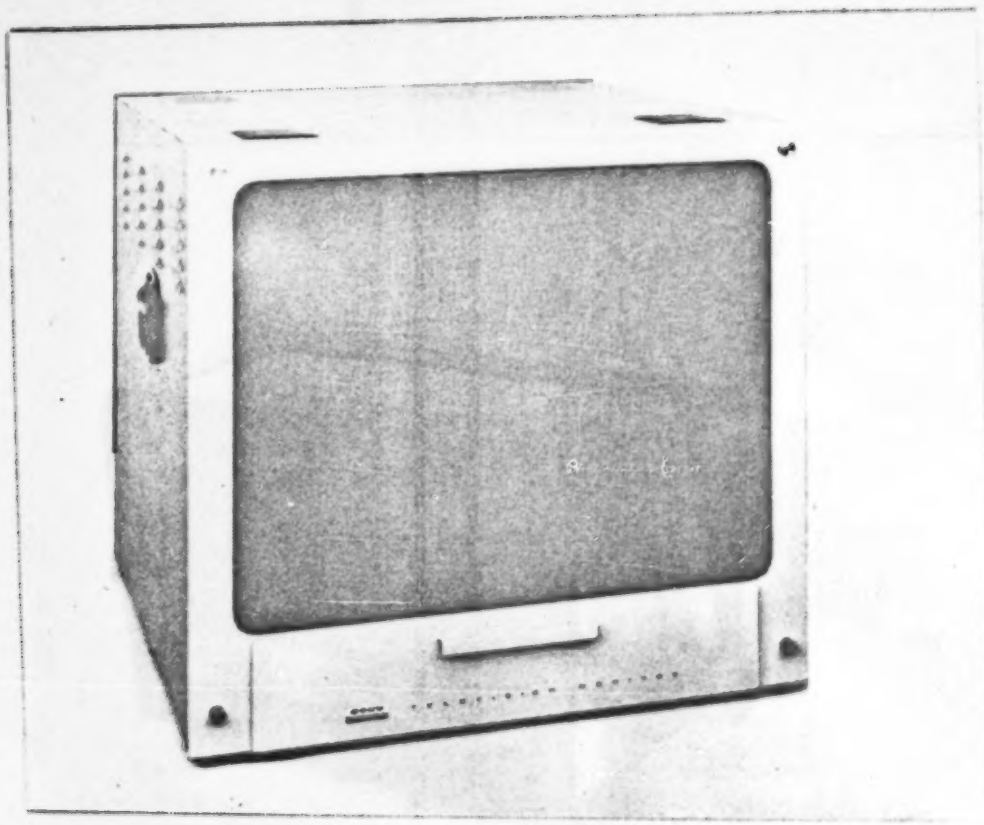
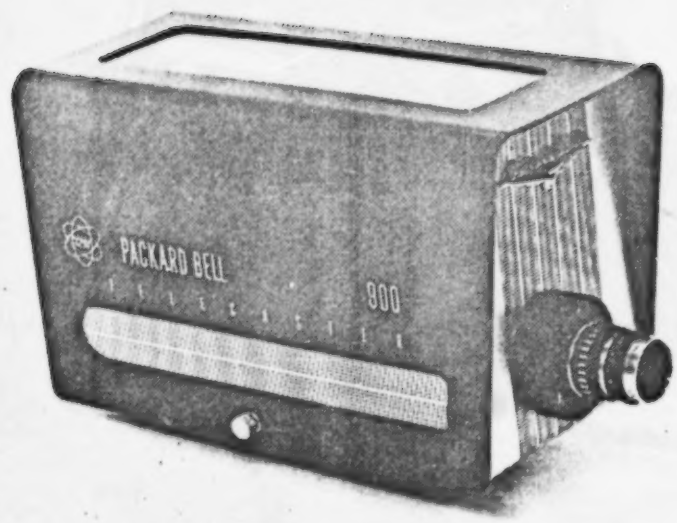


Fig 307 C Coho Electronics Inc, Kintel Div.

Neg. No _____

Ch. _____ Page _____



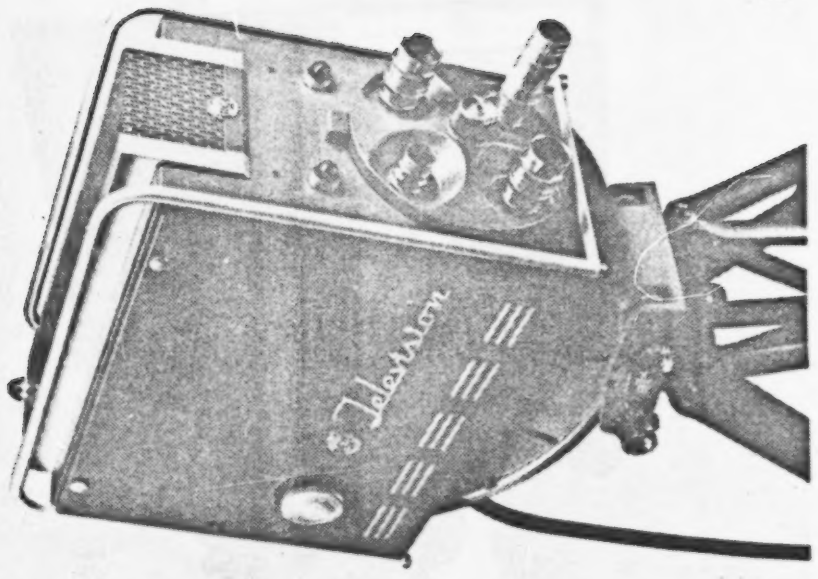
PACKARD BELL

P/N 308

Mfg. No. ~~670~~ 1140

Ch _____ Page _____

TOP

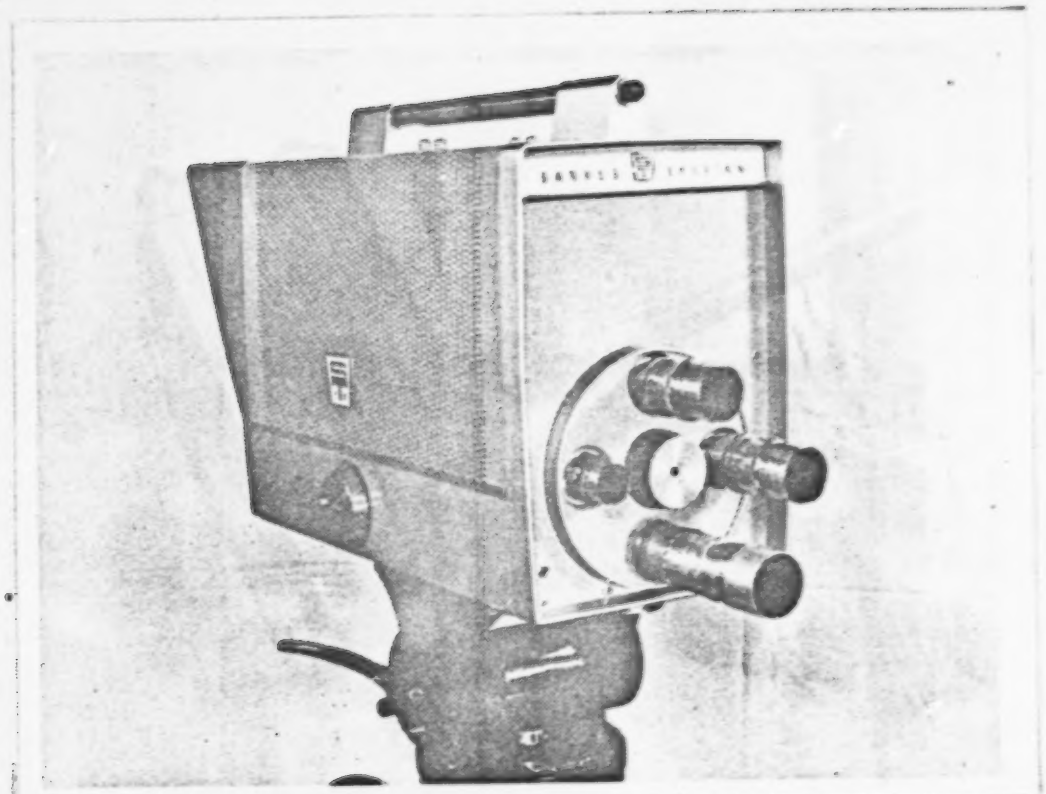


RADIO CORPORATION OF AMERICA

Fig 309

Mfg. No. ~~1041~~ 1141

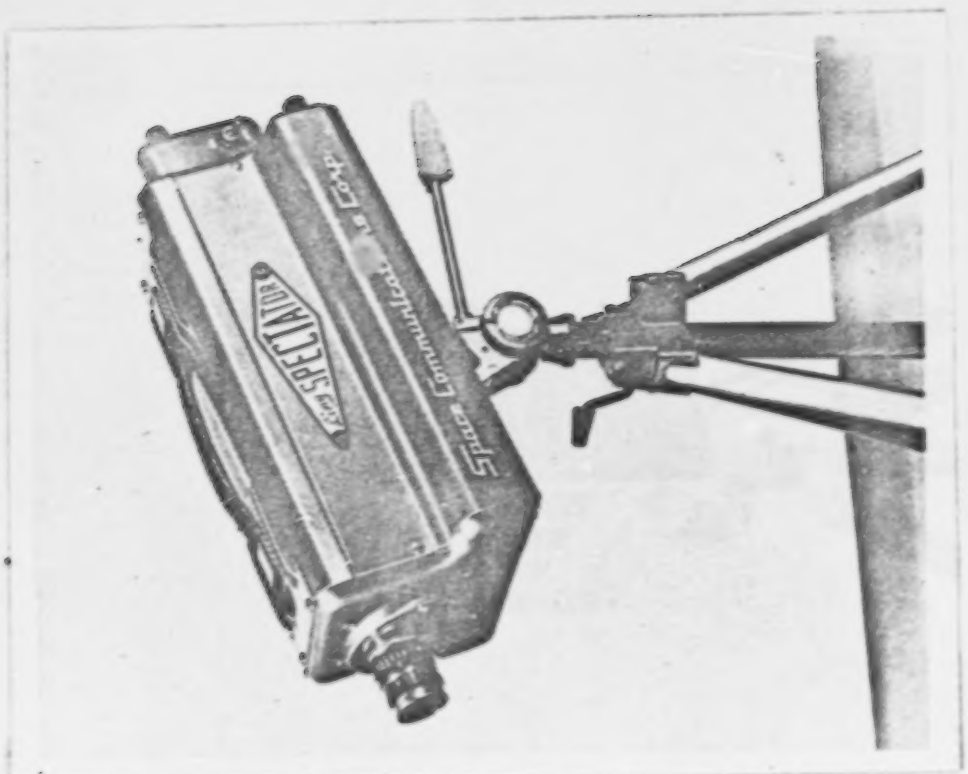
Ch _____ Page _____



SARKES TARZIAN

P/R 310

Neg. No. 1142



SPACE COMMUNICATIONS

312

1143

Ch _____ Page _____

TOP

SYLVANIA

FIG 313

FIG. No. 257

Ch ____ Page ____

TOP

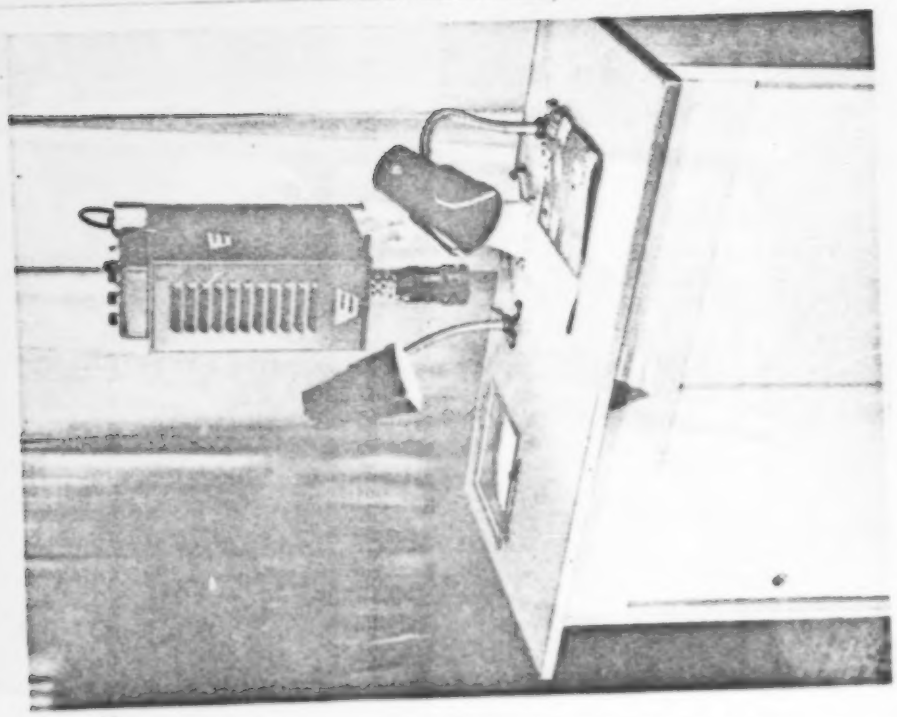


FIG 314

VIDEO ENGINEERING — complete facility for demonstrations, transparencies, slides, and films in a portable desk unit

ANSI NO 256

a typical
DUMONT — A switching and monitoring system

315

709 1144

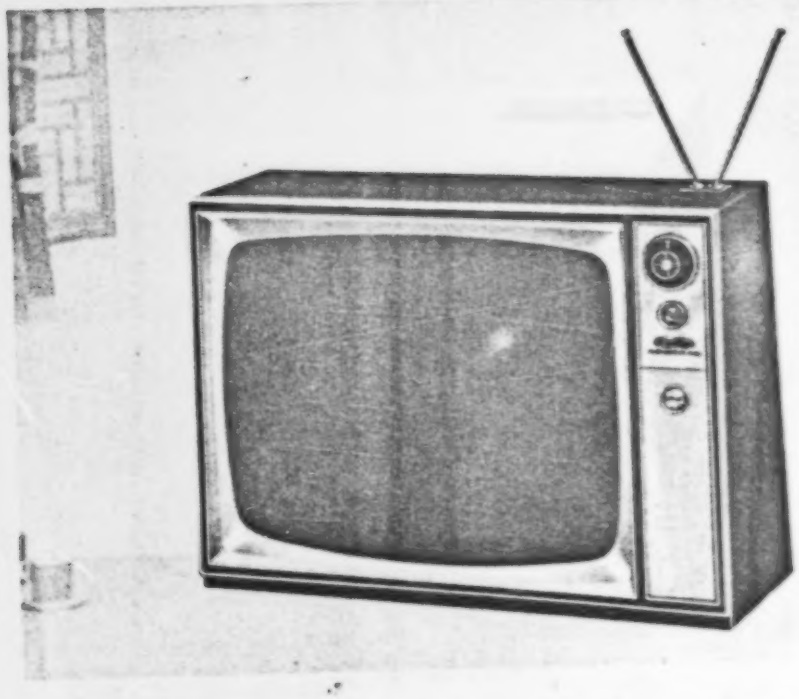
Ch._____ Page_____

"General Precision Laboratories —

Fig 315a ~~G.P.L.~~

a Multiplexing Unit for
film and slide chain.

Neg. No. _____



ADMIRAL

Fig 316

Neg. No 511

Ch. _____ Page _____

Fig 316a

ARBOR

Neg. No _____

Ch_____ Page _____

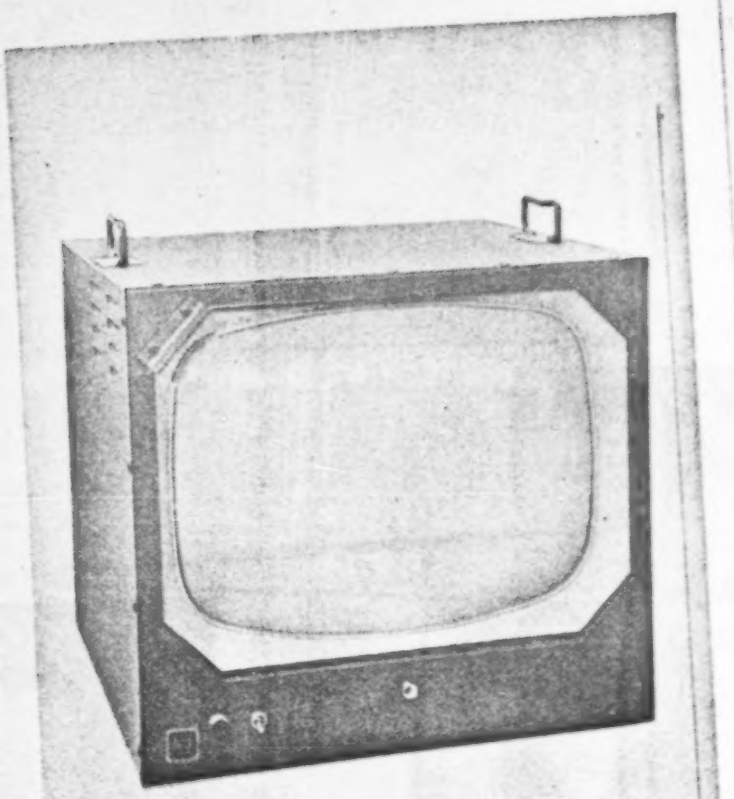
TOP

The ATR BILTMORE
Model 26007
Available in Walnut, Mahogany, or Blonde Korina

AMERICAN TELEVISION & RADIO

FIG 317

No. Sc 486



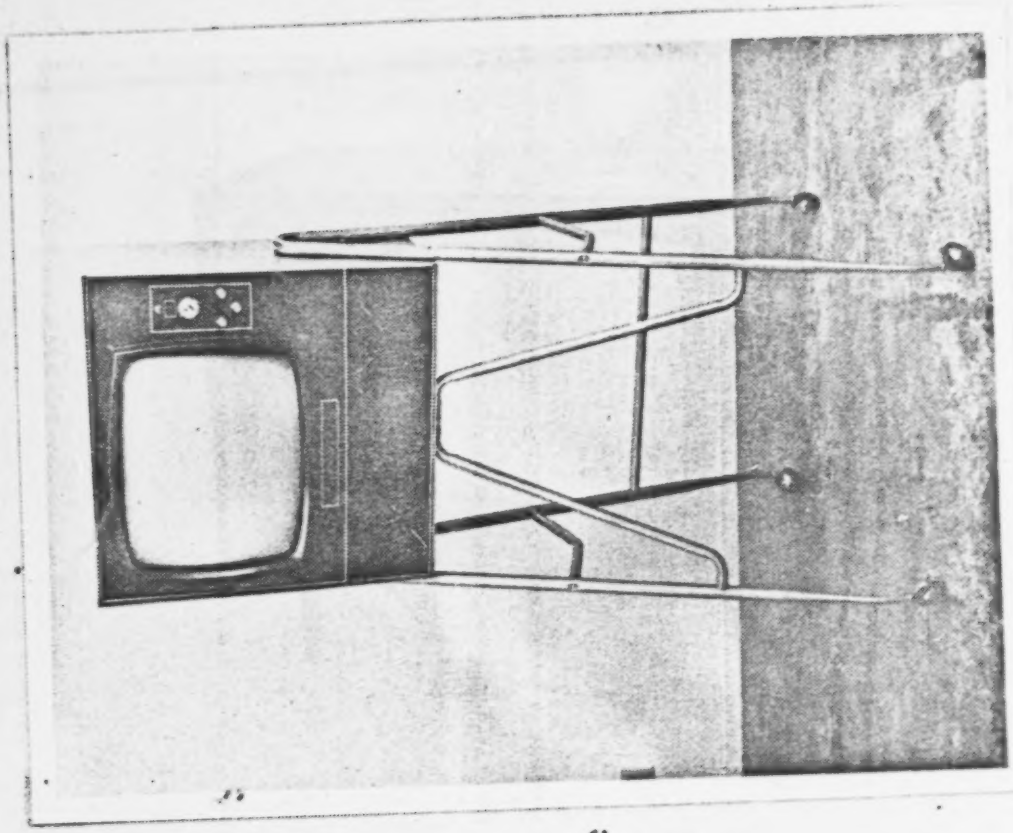
Model DVM-17 Monitor

BLONDER TONGUE

Fig 318

Neg. No. 538

Cb _____ Page _____



TOP

CONRAC

Fig 319

Neg. No 1145

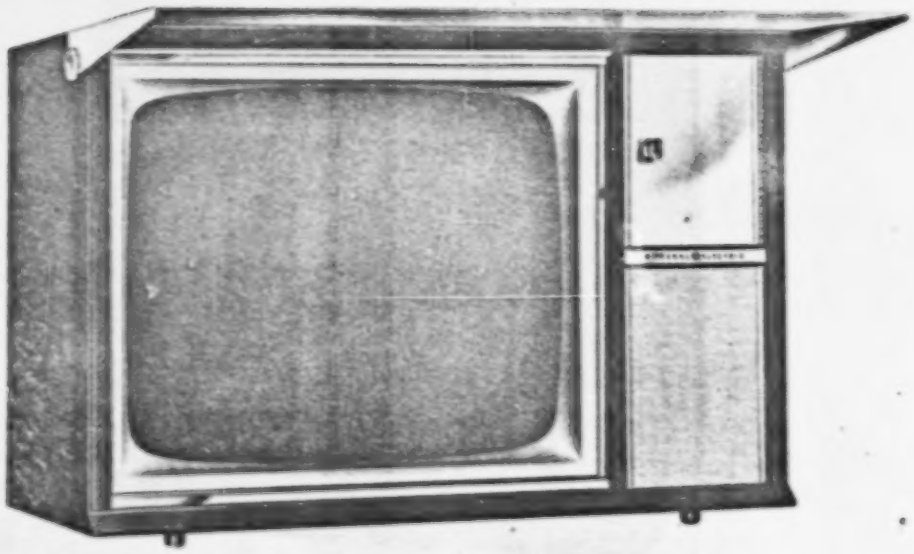
Ch _____ Page _____

CONRAC

FIG 320

NEG. NO. 275

Ch._____ Page_____

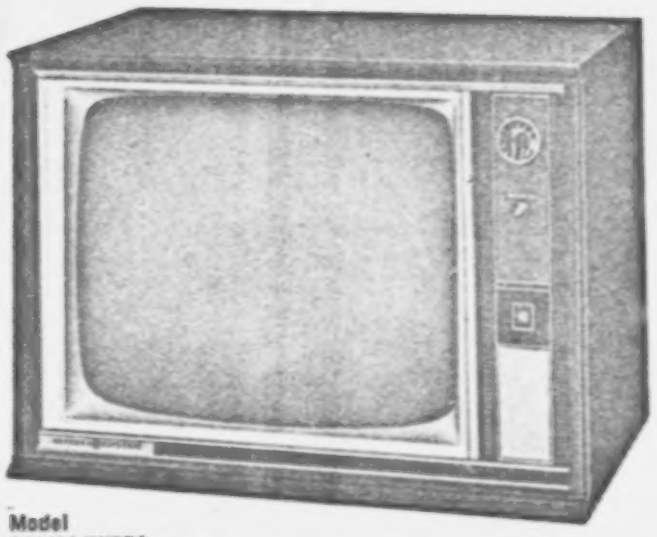


42-1966 CUSTOMIZED TELEVISION RECEIVER FOR SCHOOLS, MODEL CANTERBURY, BLACK LEATHERETTE TEXTURED WOODGRAIN CABINET, BRUSHED ALUMINUM FINISH TRIM.

Fig 321 General Electric

Neg. No 1146

Ch. _____ Page _____



Model
CAM724WEB*
Black hardboard cabinet. 23-inch diagonal tube—282 sq. in. picture.

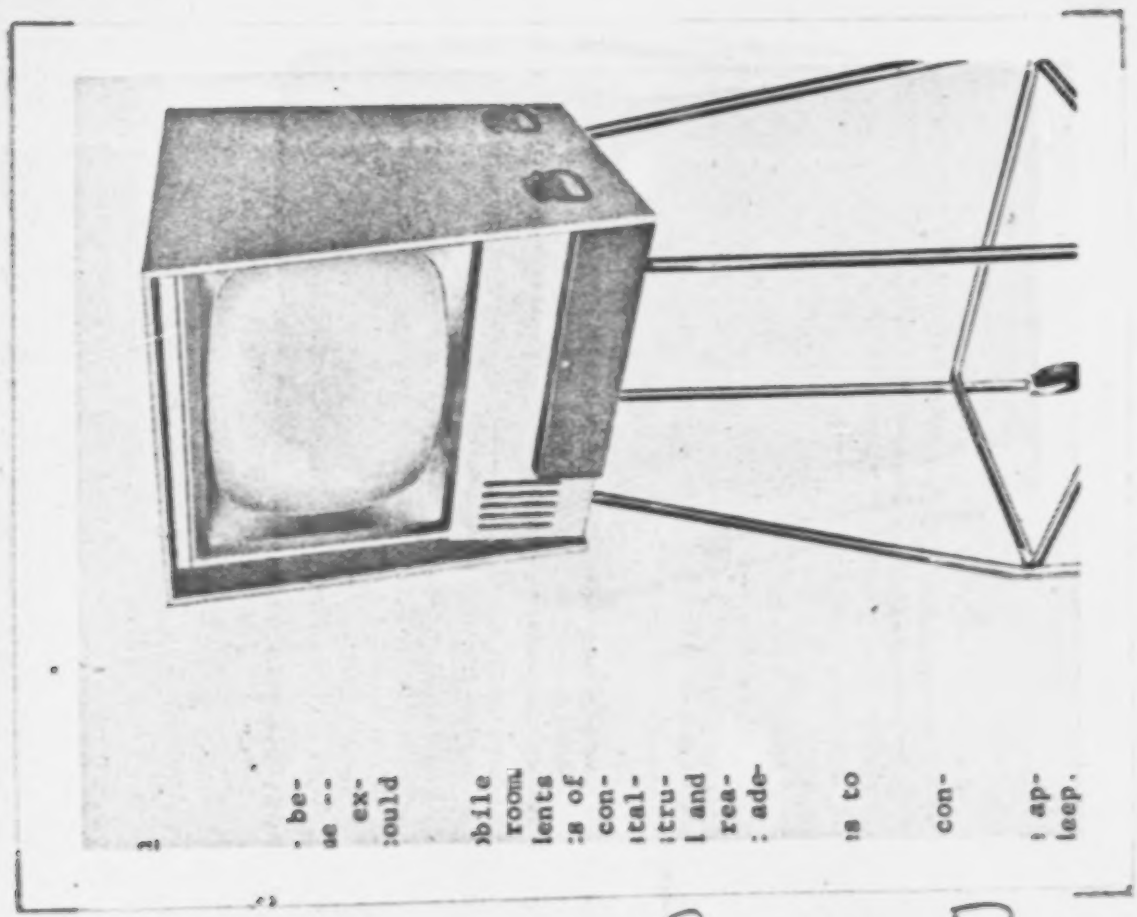
A customized television receiver for schools which offers superlative performance and many of the extra features desired for educational use.

GENERAL ELECTRIC

Fig 321a

Neg. No. 1146

Ch. _____ Page _____



GENERAL PRECISION

Fig 322

Neg. No. 1147

KINTEL

Fig 322a"

Neg. No 69-1148

Ch._____ Page_____

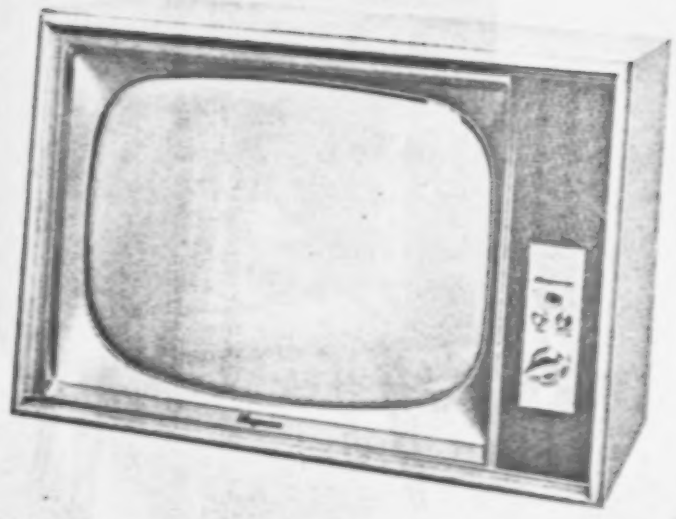


Fig 324 Magnavox

Neg. No. 1149

Ch._____ Page _____

Magnavox Authorized Advertising Model, . .The Greenbrier, Model I-MV301N in American walnut

MAGNAVOX

FIG 324 a

NGS No _____

Ch. _____ Page _____

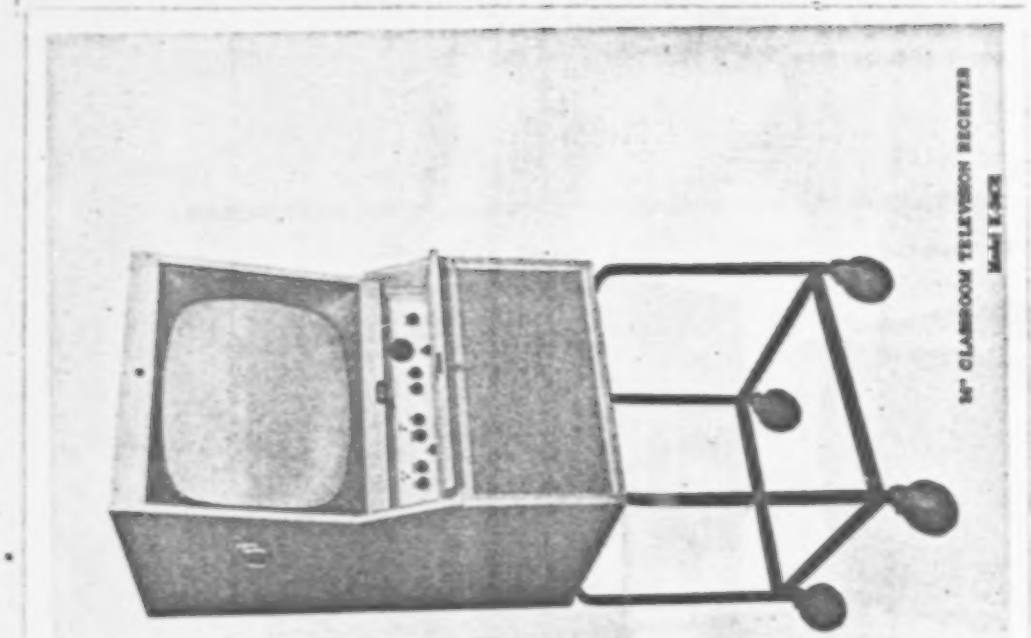
MAGNAVOX

Fig 324 B

Neg. No. _____

Ch _____ Page _____

TOP



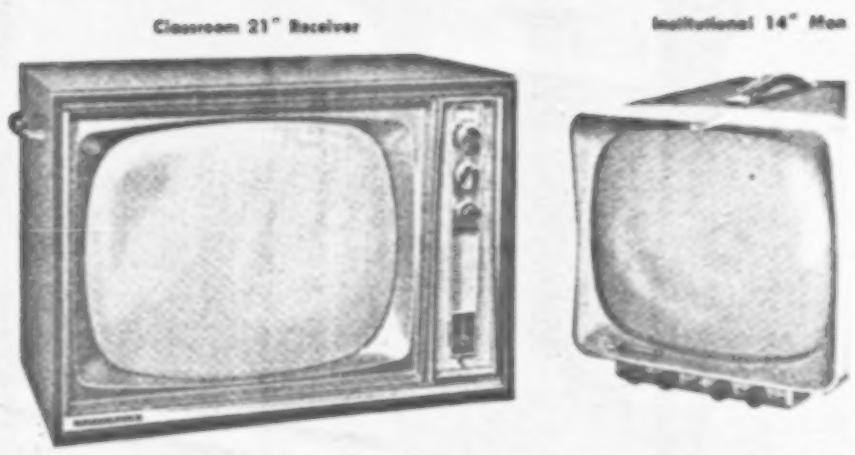
MIRATEL

Fig. 325

Neg. No 1150

Ch. _____ Page _____

ferent building, a different city. And often you can see better than if you were actually there.

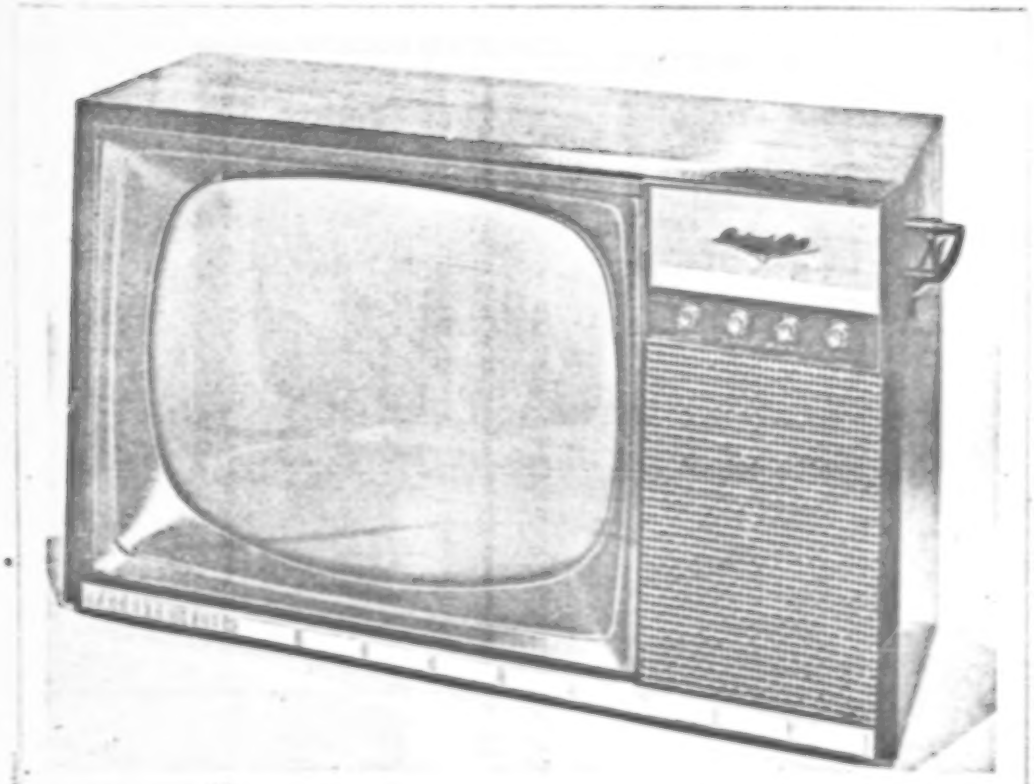


MOTOROLA

Fig 326

Neg. No. 1151

Ch _____ Page _____

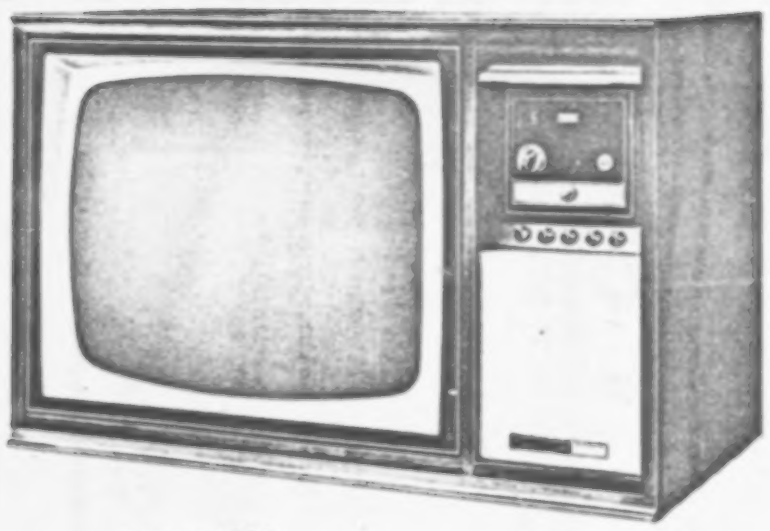


PACKARD BELL

FIG 327

NRB No. ~~620~~ 1152

Ch._____ Page_____



236.1VGIM

Fig 328 RCA Victor

Neg. No. 1153

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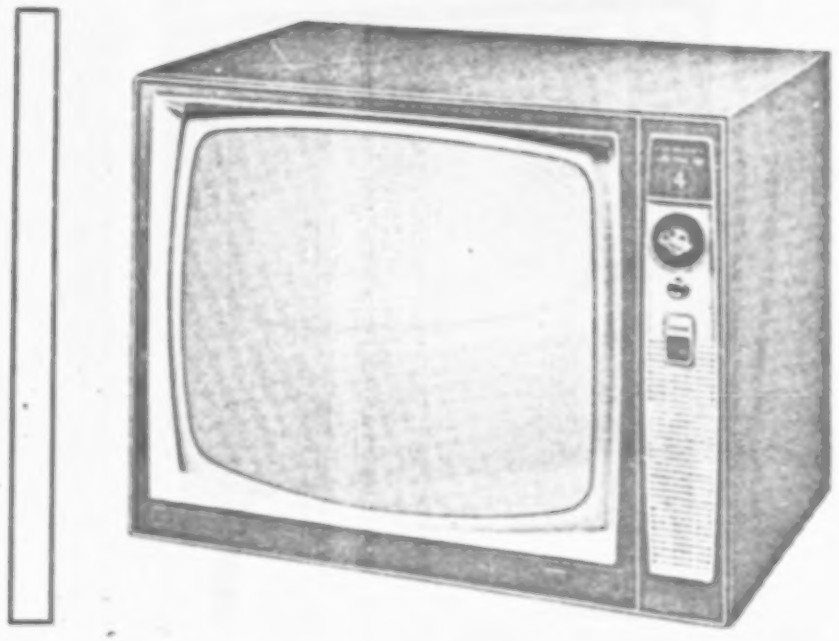
SION BY RCA . . . DESIGNED EXPRESSLY FOR SCHOC



RADIO CORPORATION
OF AMERICA

Fig 328 A

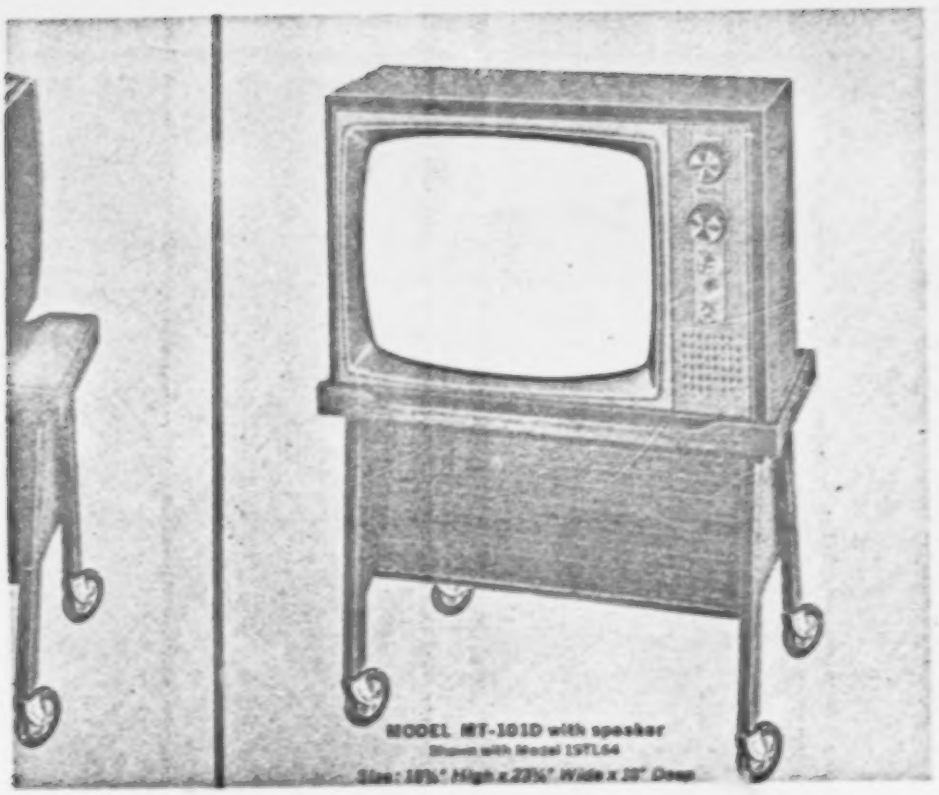
Neg. No. 1153

Ch._____ Page_____

Fig 328B. Setchell Carlson

Neg. No. 1154

Ch. _____ Page _____

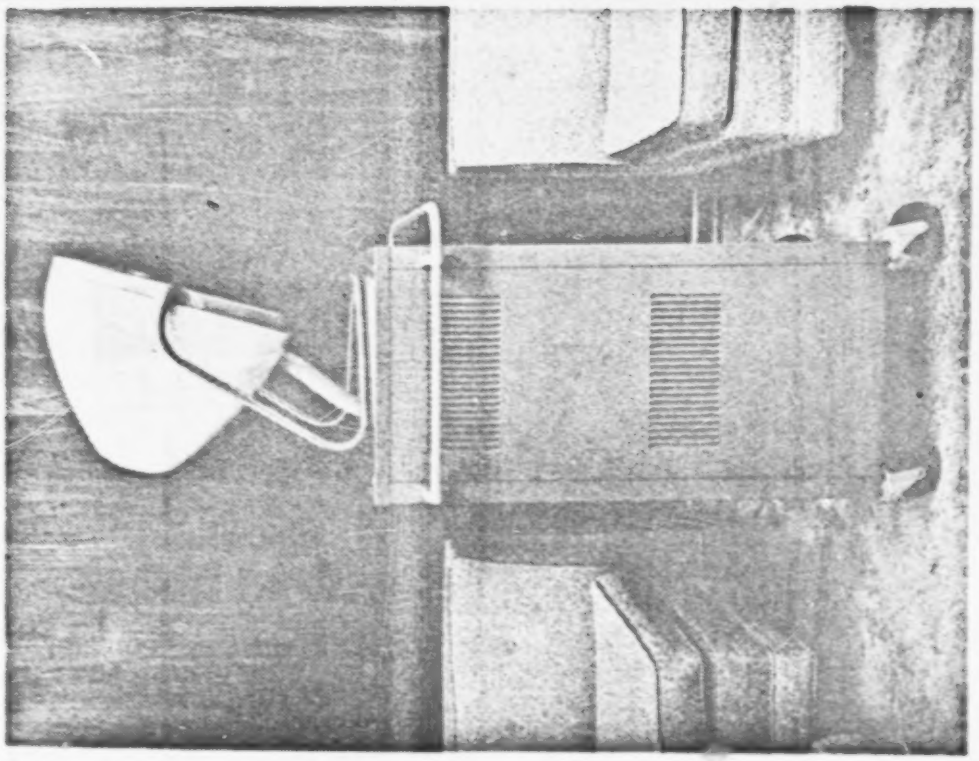


SETCHELL - CARLSON

Fig 328C

Neg. No. 1154

Ch _____ Page _____



TOP

SPACE COMMUNICATIONS

Fig 329

Neg. No. 1155

Ci... Page ...

SYLVANIA

TV RECEIVER

for
the
classroom

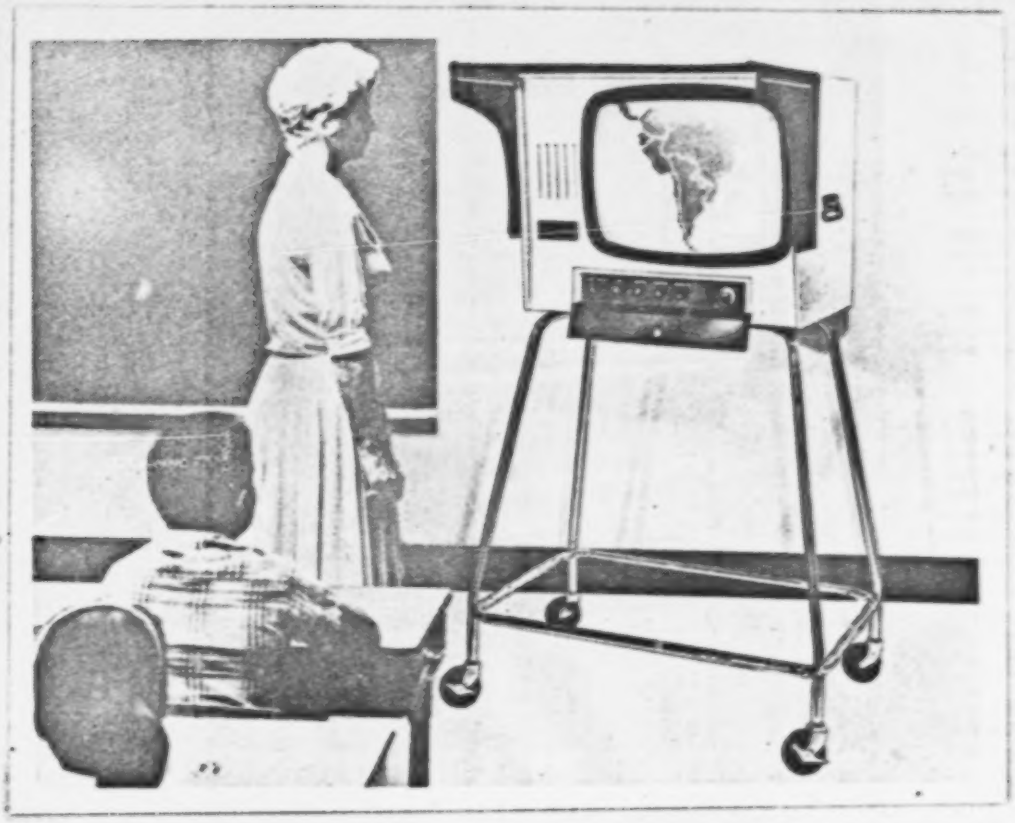
Model 23E01-VHF
Model 23E01U-UHF/VHF

SYLVANIA

FAB 330

FAB NO 258

Ch. _____ Page _____

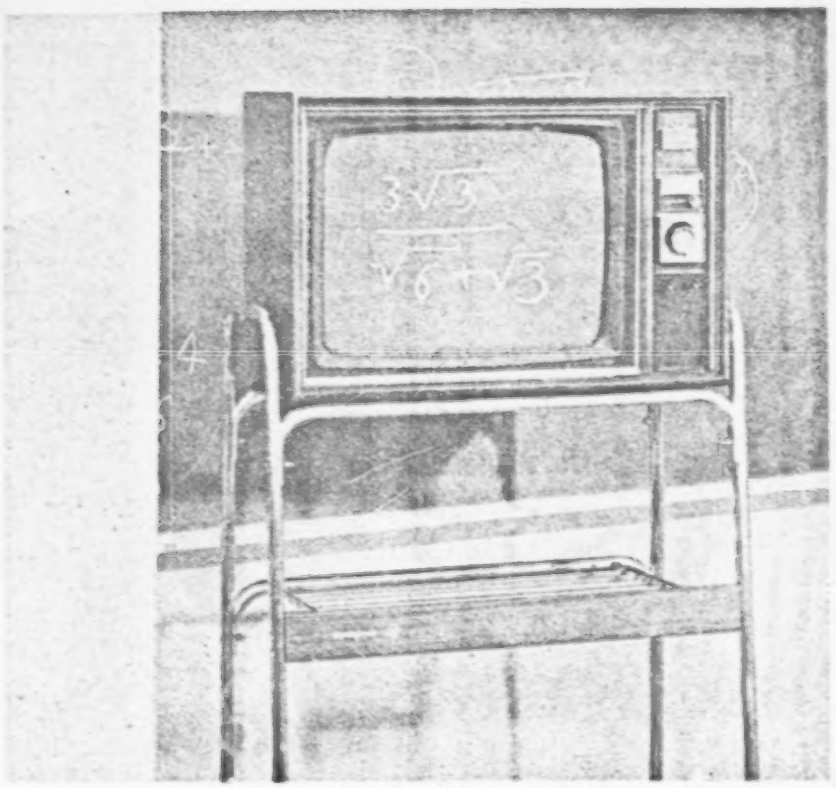


TRANSVISION

Fig 331

Reg. No 687 1156

Ch. _____ Page _____



Mode
with
...new squ
full 278 sq
brighter pic

MEMORY TU
sound. Once
fine tuning wh
ILLUMINATI
being viewed.
WIDE RANG
outstanding st

SEE-MATIC
with complete
makes usual
PICTURE PO
power... assu
TUNER: Hig
inserted in un
I.F. AMPLIFI
reproduces all
reduce adjacen
AUTOMATIC
signal strengt

PUSH-RUTT
setting. Simpl

WESTINGHOUSE

Fig 332

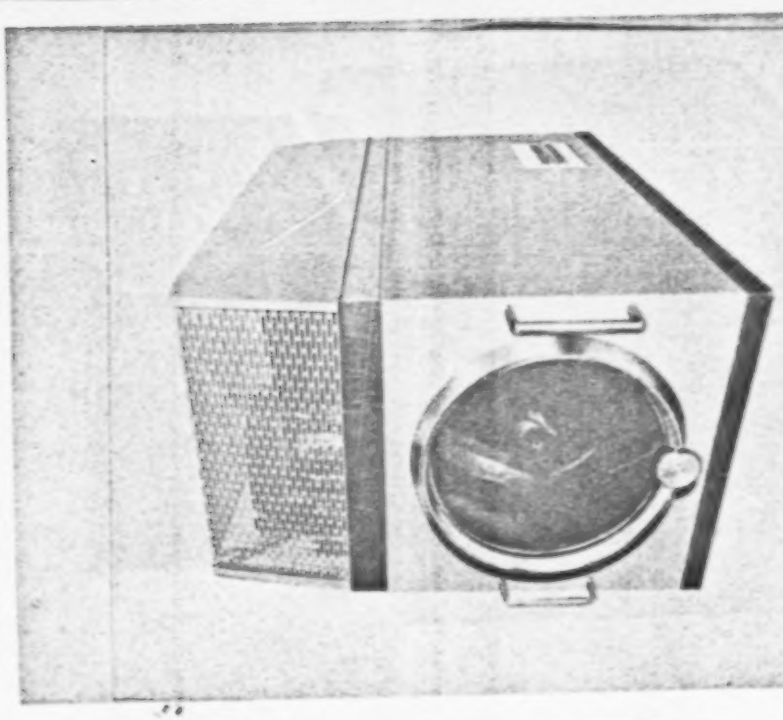
Neg. No. 1157

L 2717 R

ZENITH

FIG 333

Ch. ____ Page ____

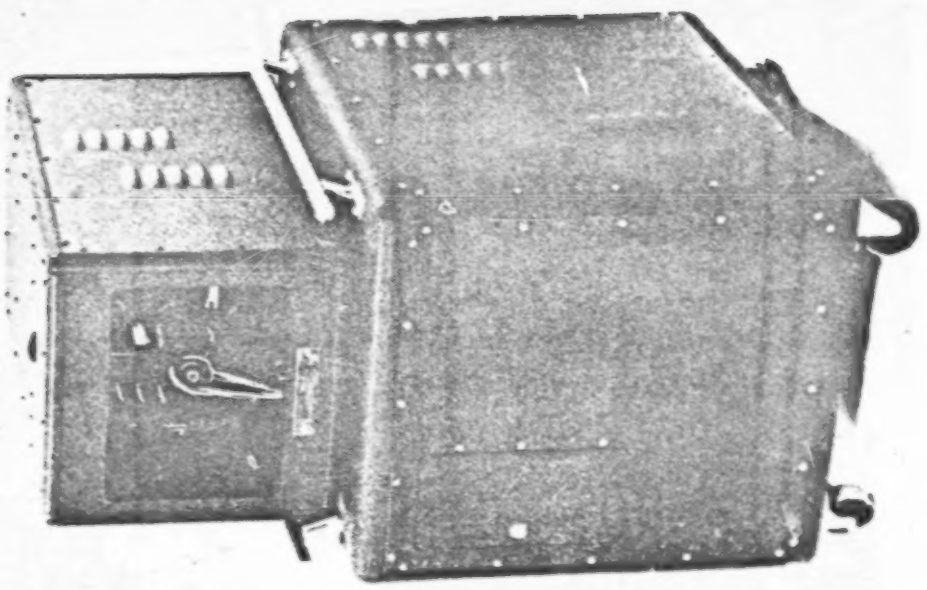


BLONDER TONGUE — ~~TV~~ projector

FIG 334

Dwg. No. 534

Ch _____ Page _____

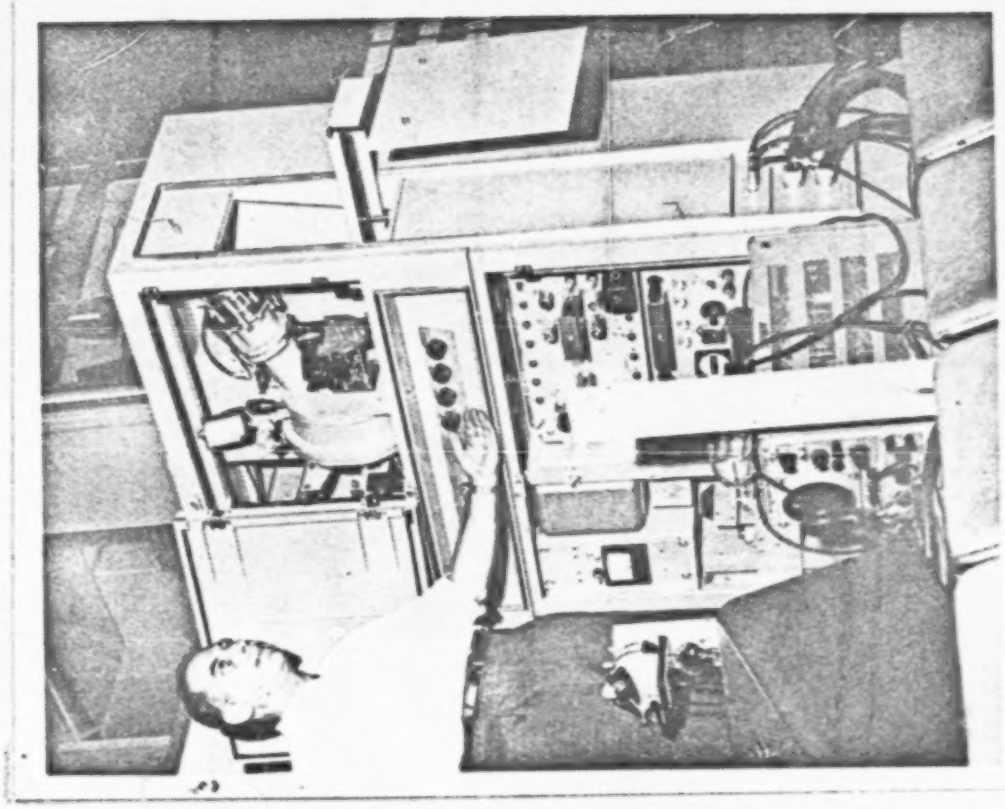


TOP

CLOSED CIRCUIT TV BORD.

FIG 335

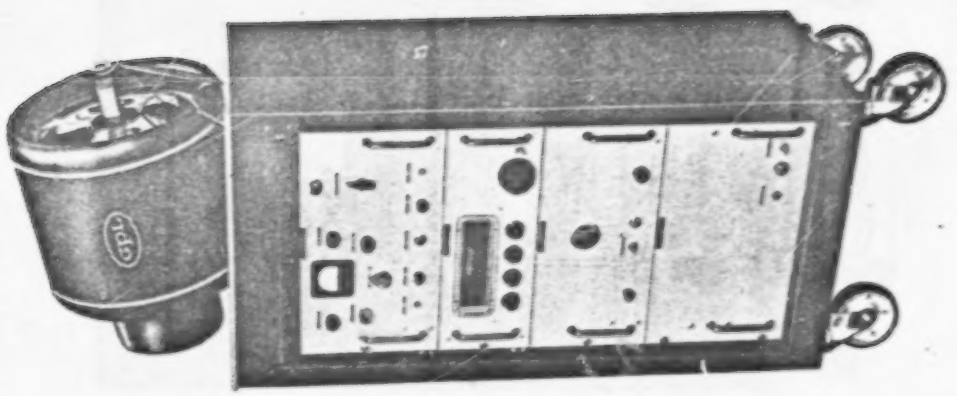
NAS. No. ~~207~~ 1158



GENERAL ELECTRIC

FIG 336

Ch. _____ Page _____

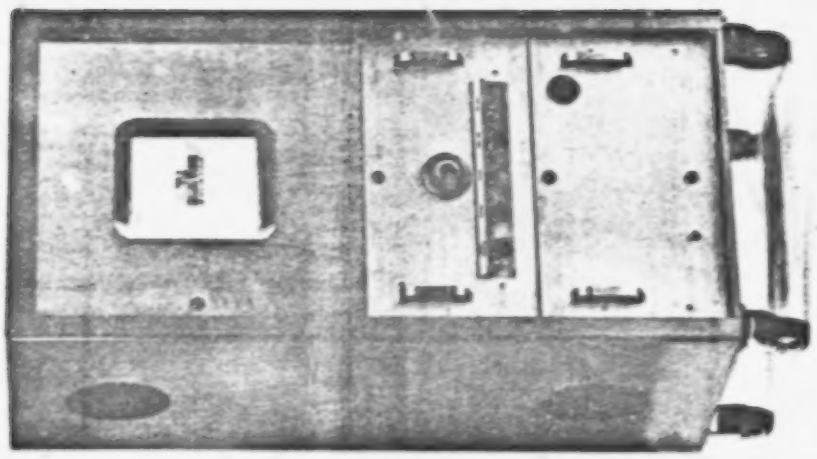


GENERAL PRECISION

Fig 337

Neg. No. 1160 6894

Ch. _____ Page _____

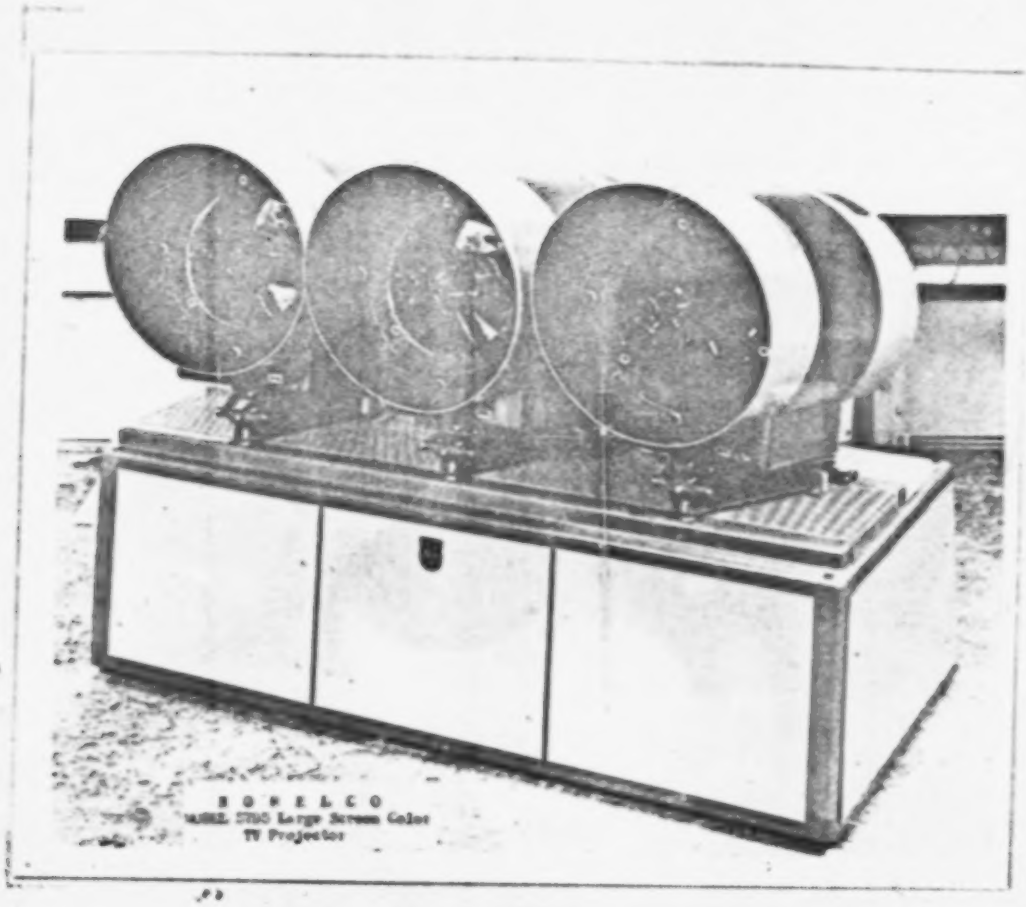


GENERAL TELEVISION NETWORK

Fig 338

Neg No. ~~689~~ 1161

Ch _____ Page _____

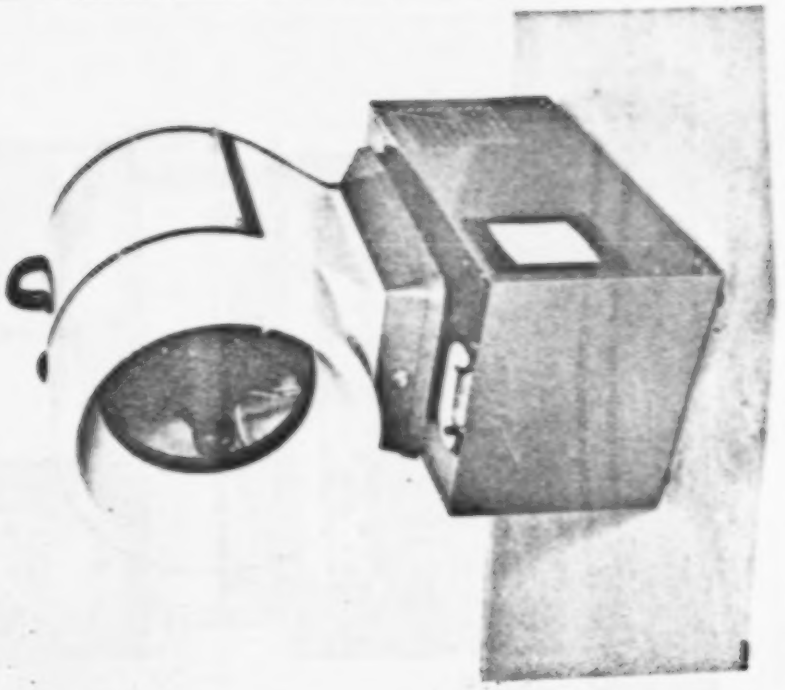


NORELCO

FAB 339

1162

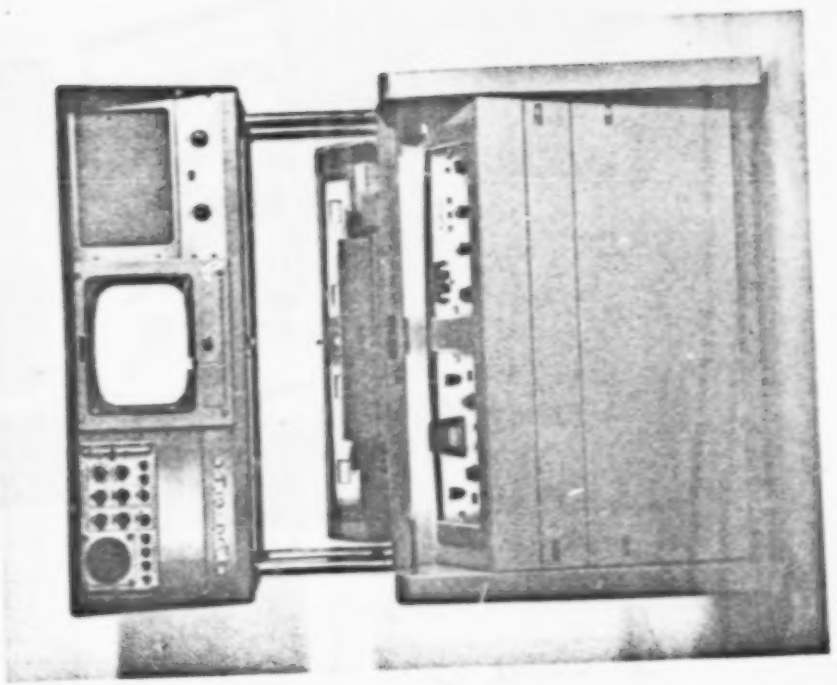
Neg. No. ~~709~~



WALTHAM

Fig. 341

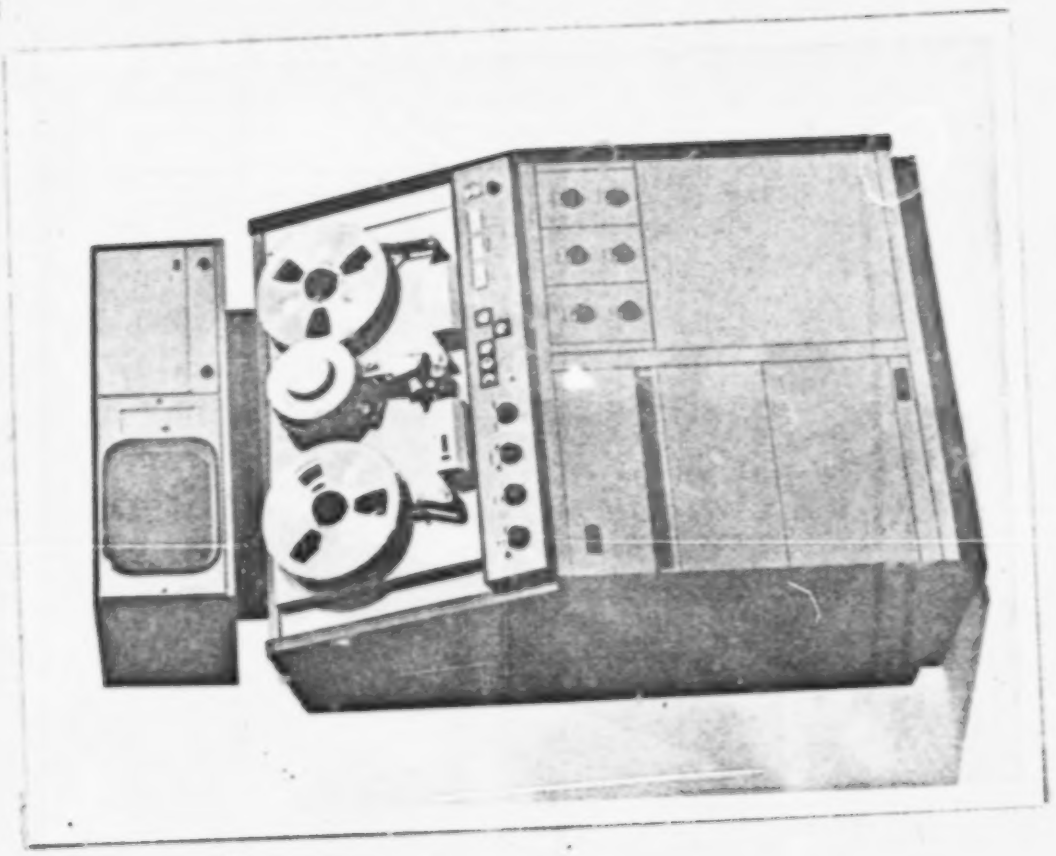
No. N. 250



AMPEX (BROADCAST MODEL).

EAB 342

EAB No. 277



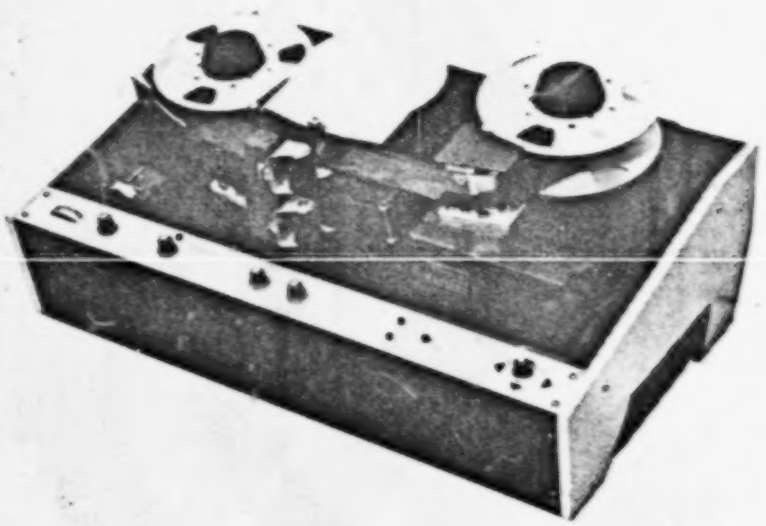
AMPEX - CLOSED CIRCUIT MODEL

Pic 363

1163

Pic No ~~707~~

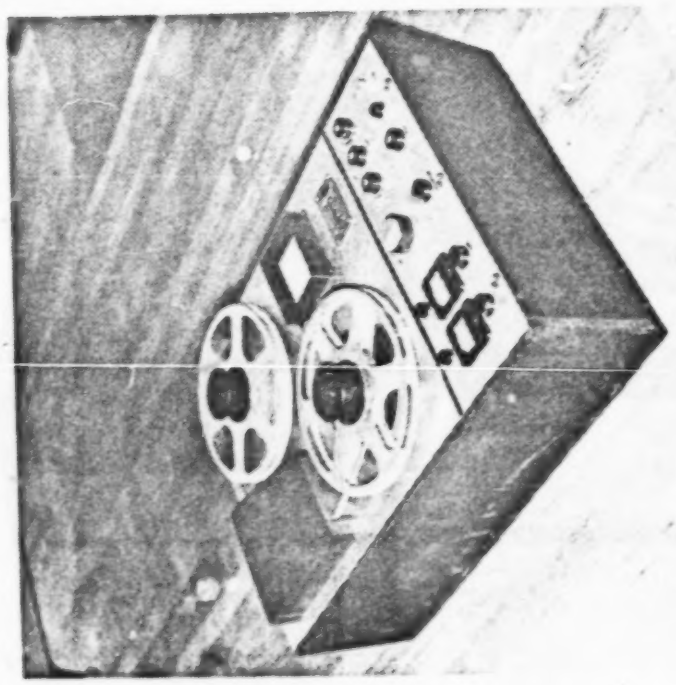
Ch._____ Page _____



AMPEX – PORTABLE MODEL

Fig 344

Neg. No 249



CINESCOPES

FIG. 345

MFG. NO. 260

Ch._____ Page_____

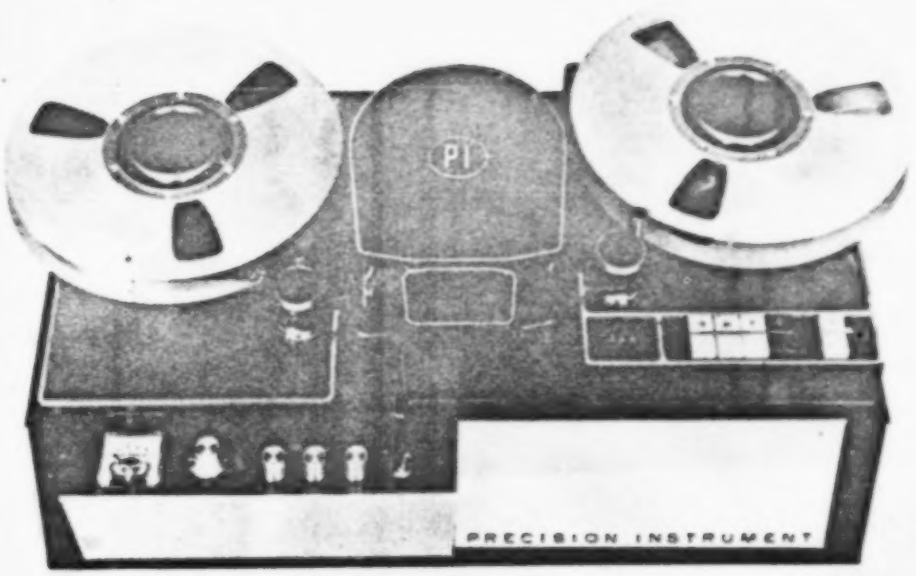
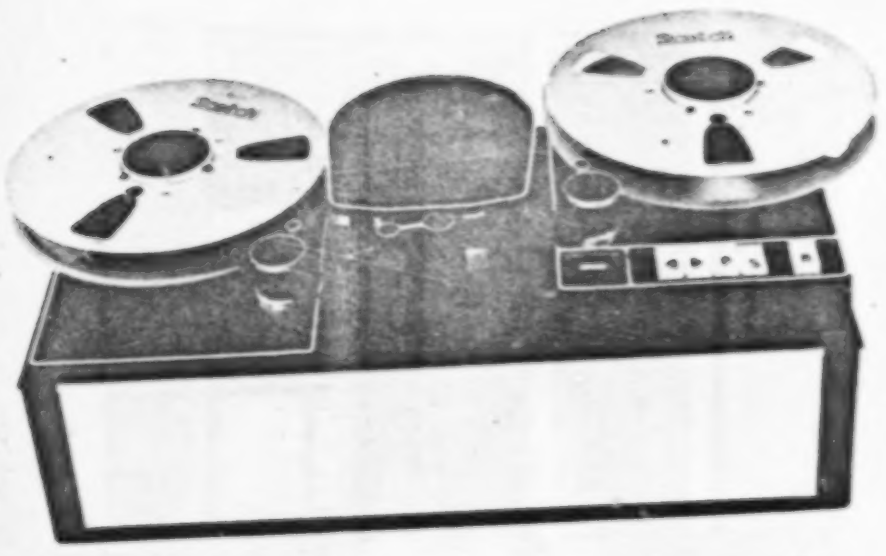


Fig 346 Precision Instrument Co

Neg. No. 1164

Ch. _____ Page _____



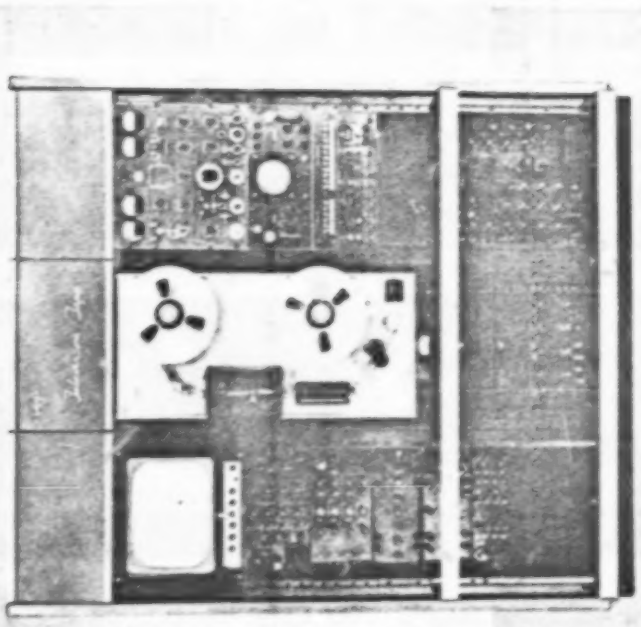
PRECISION INSTRUMENT Co

Fig 346 a

Neg. No. 1164

Ch._____ Page _____

TOP

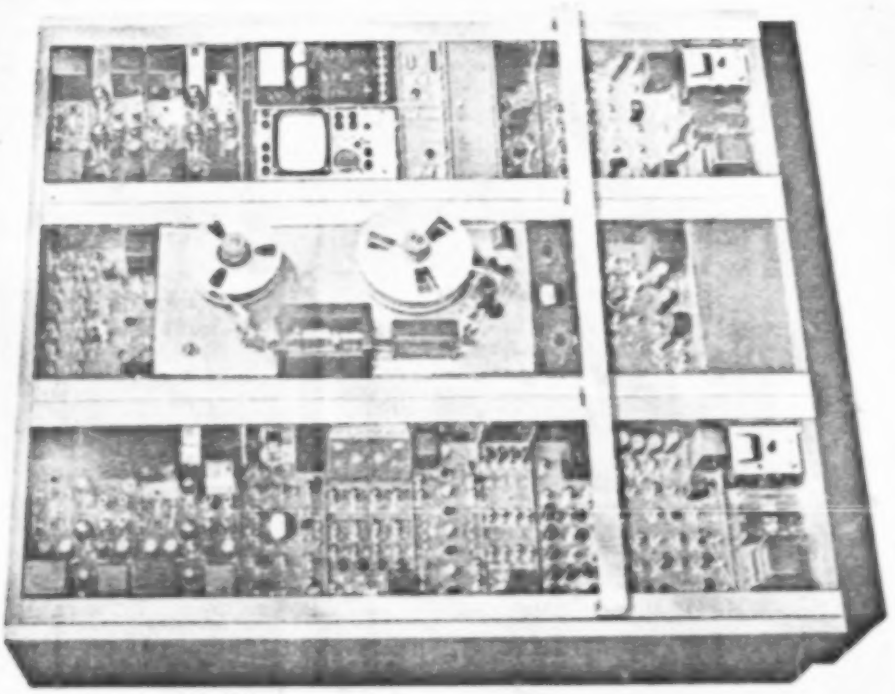


RCA - BROADCAST MODEL

FILE 347

No. 265

Ch_____ Page _____



Top

RADIO CORPORATION OF AMERICA

Fig. 348

EDUCATIONAL MODEL

Neg No. 1165

Ch _____ Page _____

Sony

Fig. 349

Rig. No. 248

Ch._____ Page_____

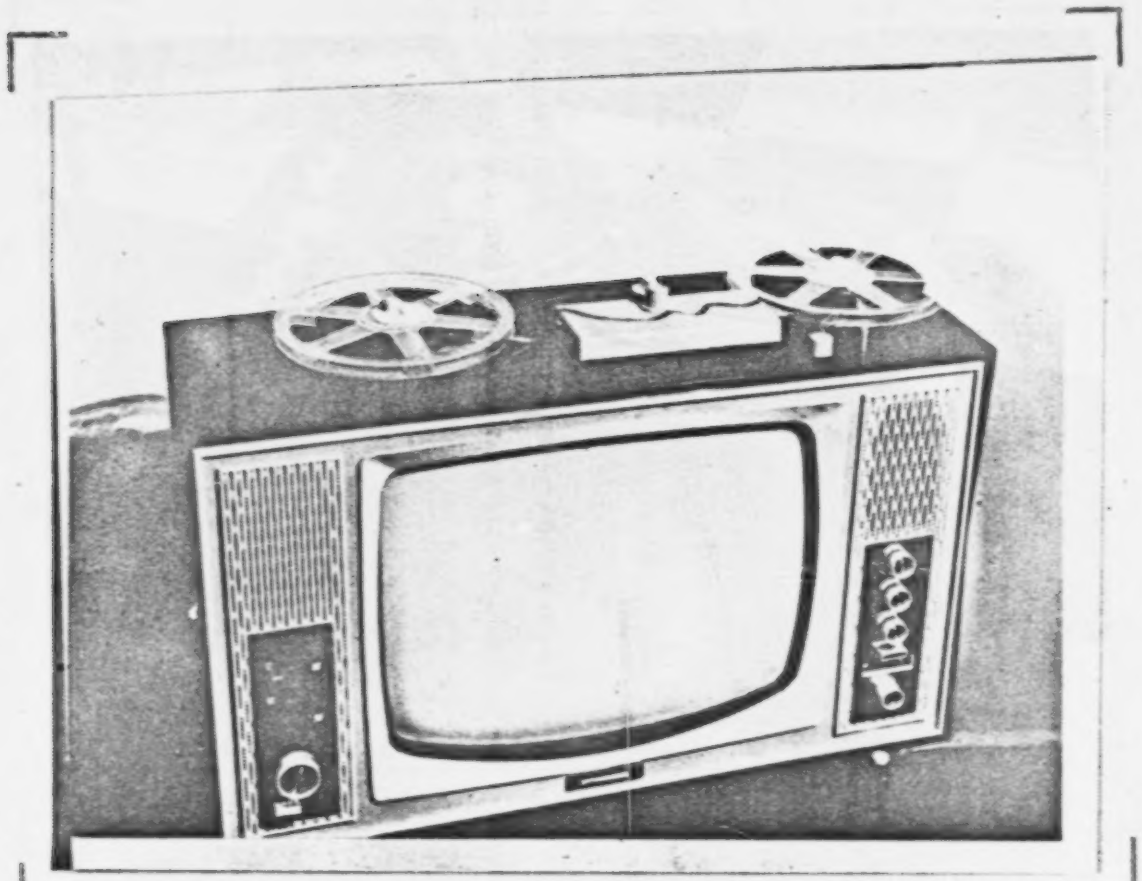


Fig 349a Telcan Videotape Recorder.

Neg. No. 1262

Fig 349b Telcan ¼" Magnetic Tape Recorder for video and audio records and plays back Through Television receiver.

Neg. No. 1263

Ch. _____ Page _____

Community Engineering Corp.

C-COR ELECTRONICS —

Fig 309aa

communication system allows students to ask questions from remote classrooms

Neg. No. 1166

Ch _____ Page _____

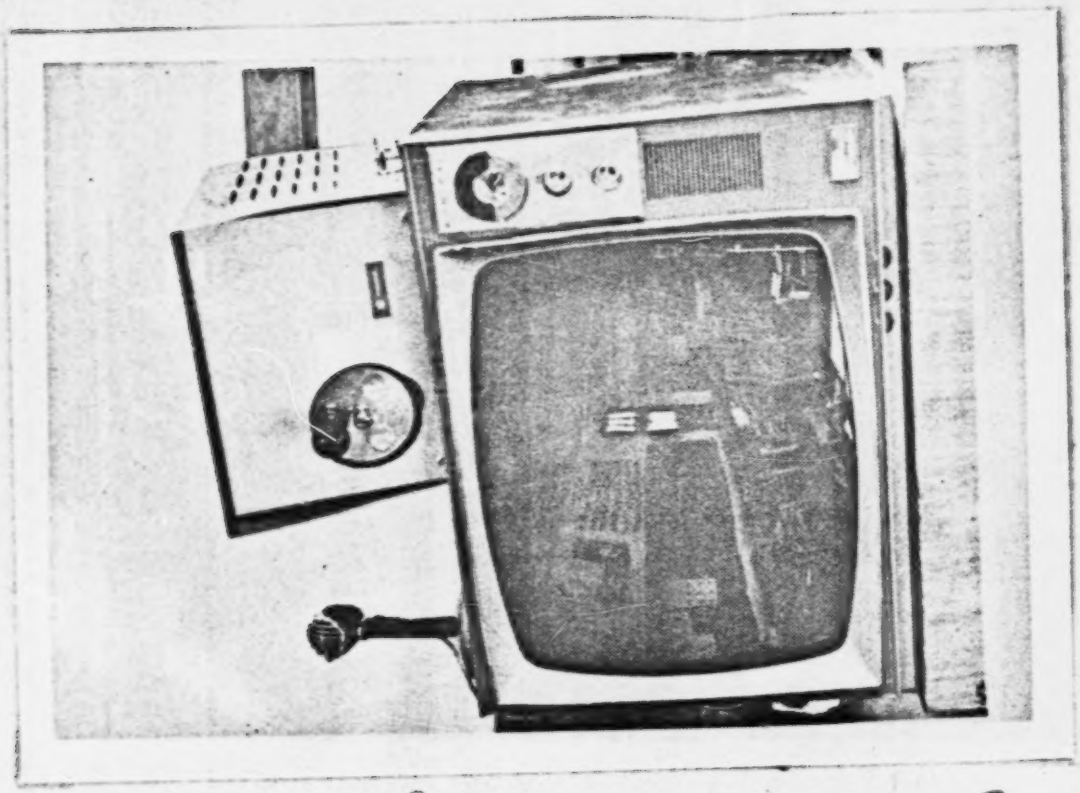
Corrigan

EXB 350

Corrigan — an early TV communication system where students responded to questions with push buttons

NOS. N° 1167

Ch. ____ Page ____



TOP

" Phonoscope — Camera + microphone above classroom receiver facilitates two way TV communication

Pic 351

Neg No 267
467?

Fig 352

PHONOSCOPE — central switching and monitoring console

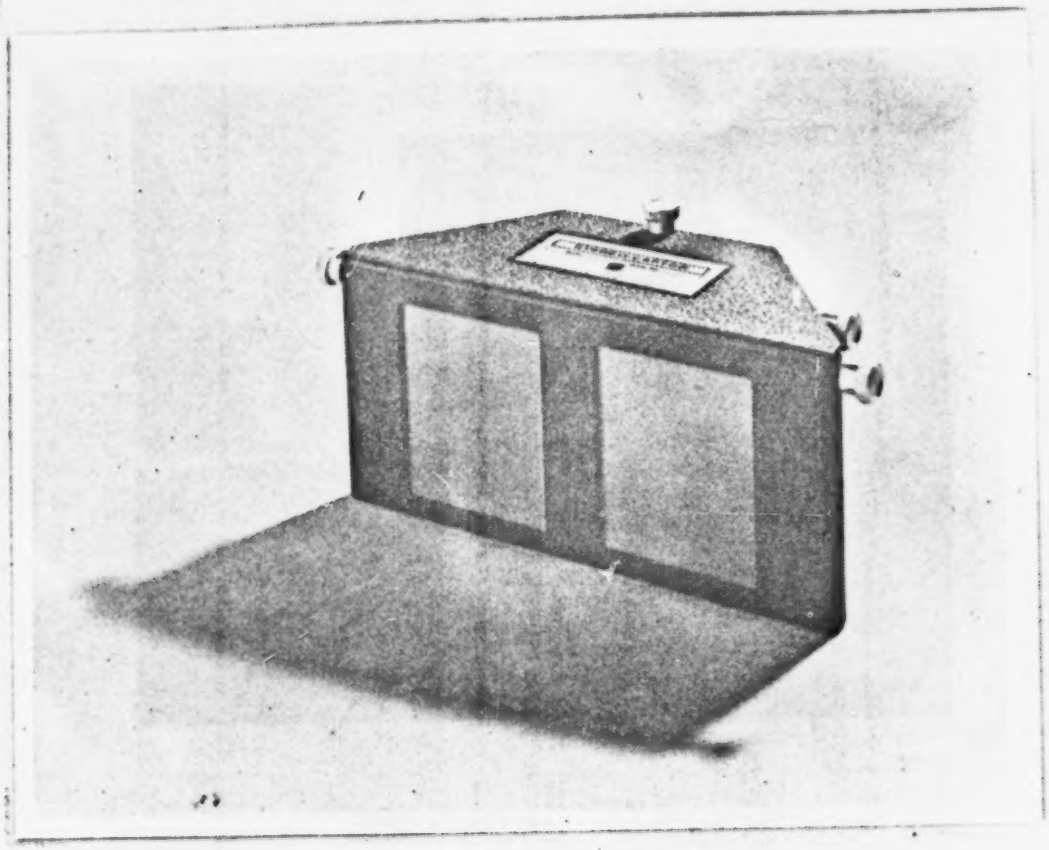
Neg. No. 1167a

Fig 353

PHONOSCOPE — a typical classroom situation.

Neg. No 166

Ch _____ Page _____



STEREOTRONICS — prism unit for 3-D TV images

Fig 35

Neg. No. ~~640~~ 1168

"

GENERAL PRECISION — library television has random access to materials — with facility to zoom in on any portion of the slide.

FAR 355

MP NO 389

Ch _____ Page _____

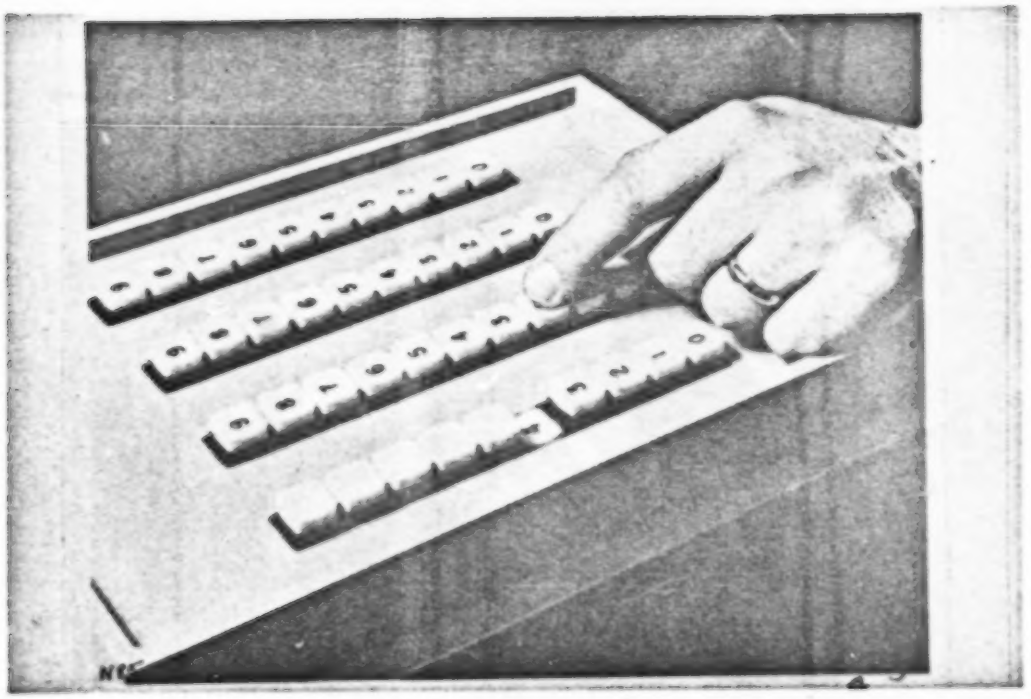
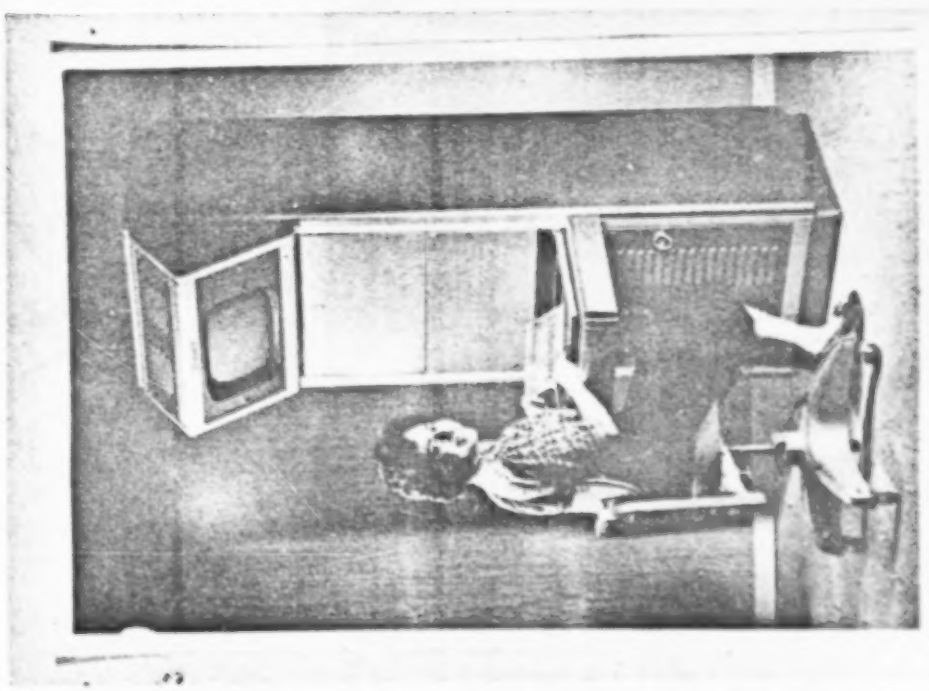


Fig. 356

GENERAL PRECISION — push button selector gains access to TV library

Neg. No. 443

Ch _____ Page _____

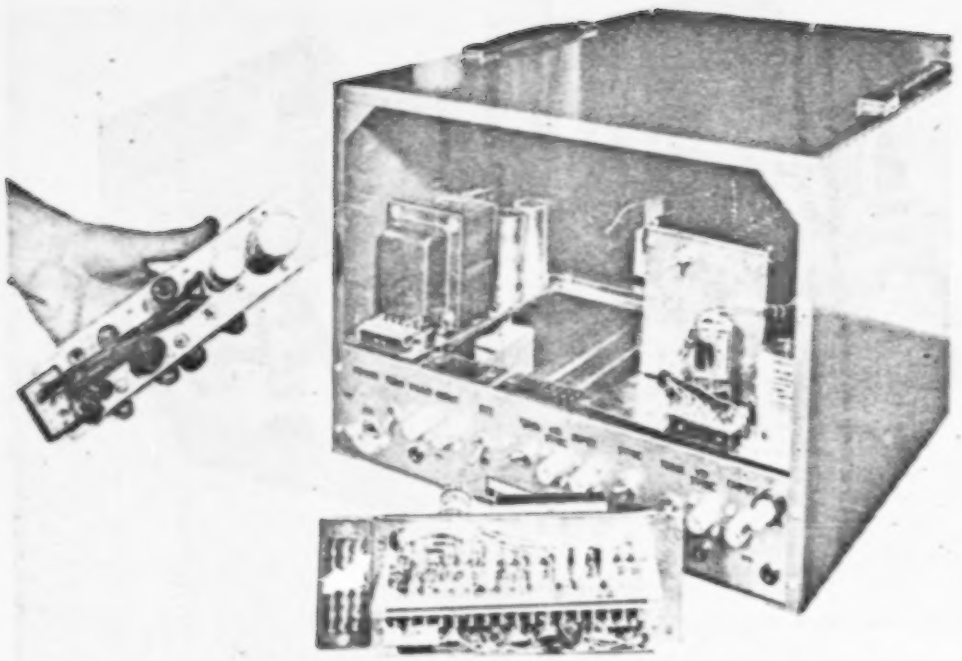


TELEVISION UTILITIES — a cameraless system used for signature retrieval in banks

357

537

Ch. _____ Page _____



Diamond — Modular Construction for easy maintainance

Fig 352a

Neg. No. 1169

Ch._____ Page_____

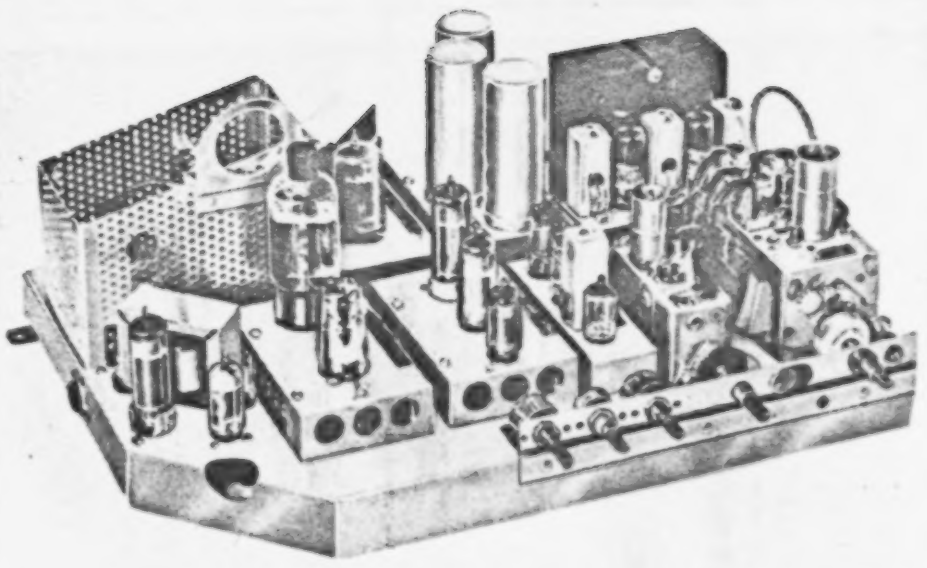
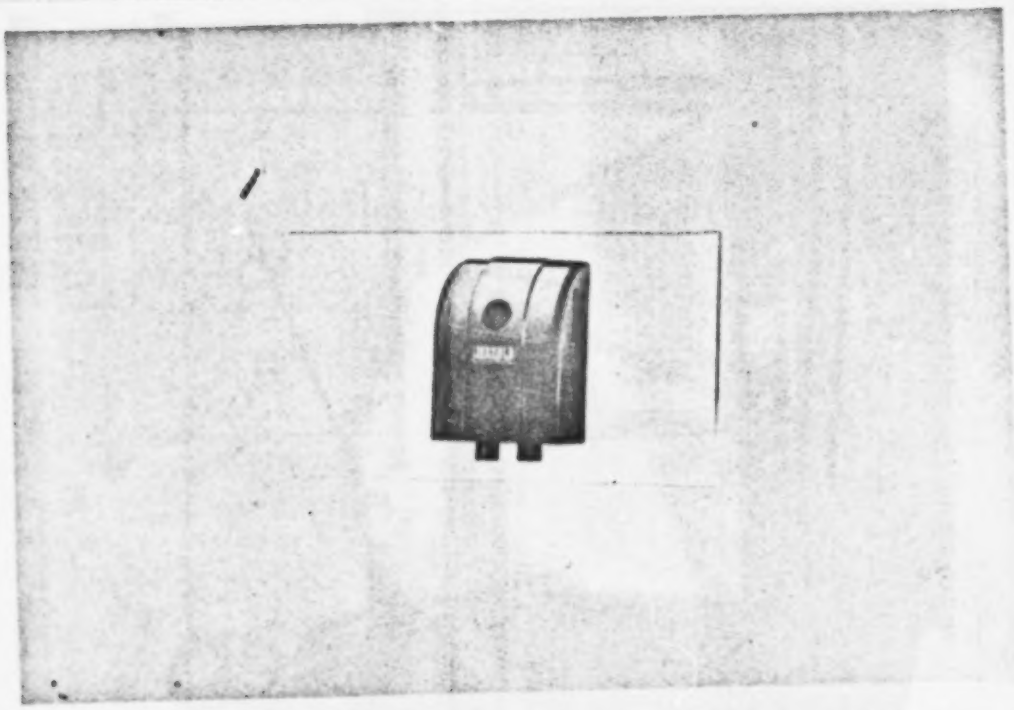


Fig 357 f-Setchell-Carlson. Modular chassis units simplify servicing of Television receivers.

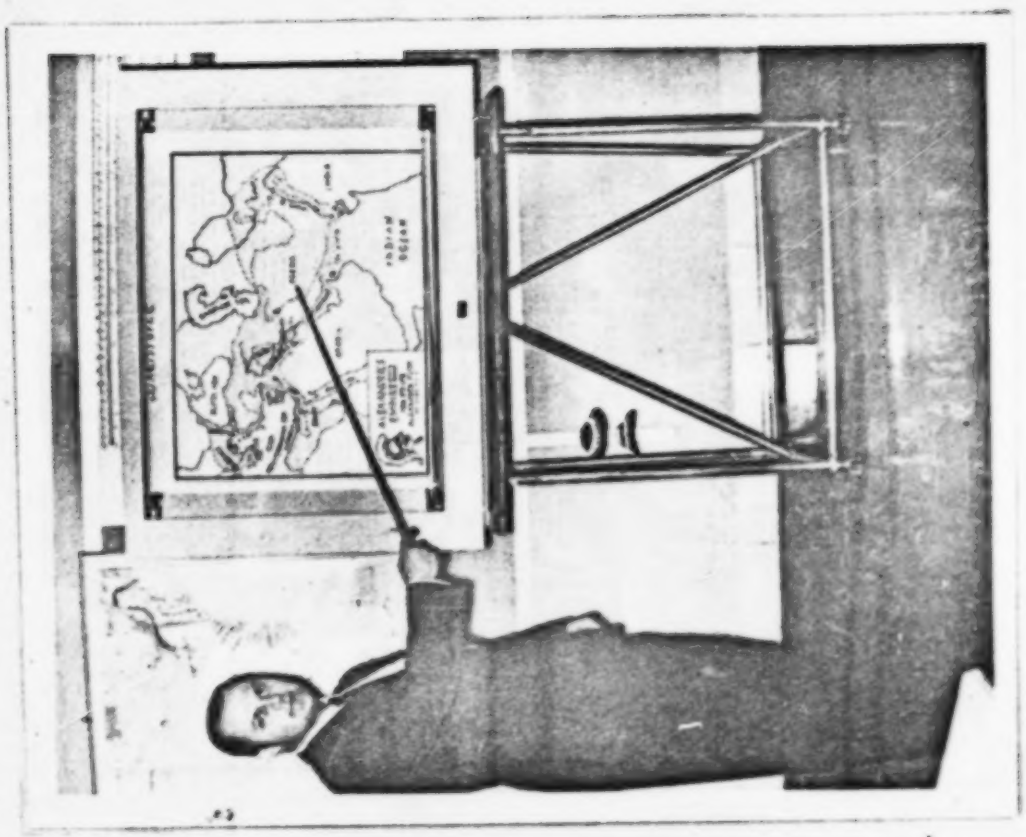
Neg. No. 1264



"

358

JERROLD ~~JACKS~~ special jacks allow a multiplicity of signals to be fed into a single co-axial cable throughout a building. A variety of jacks match the particular item of equipment to the system.



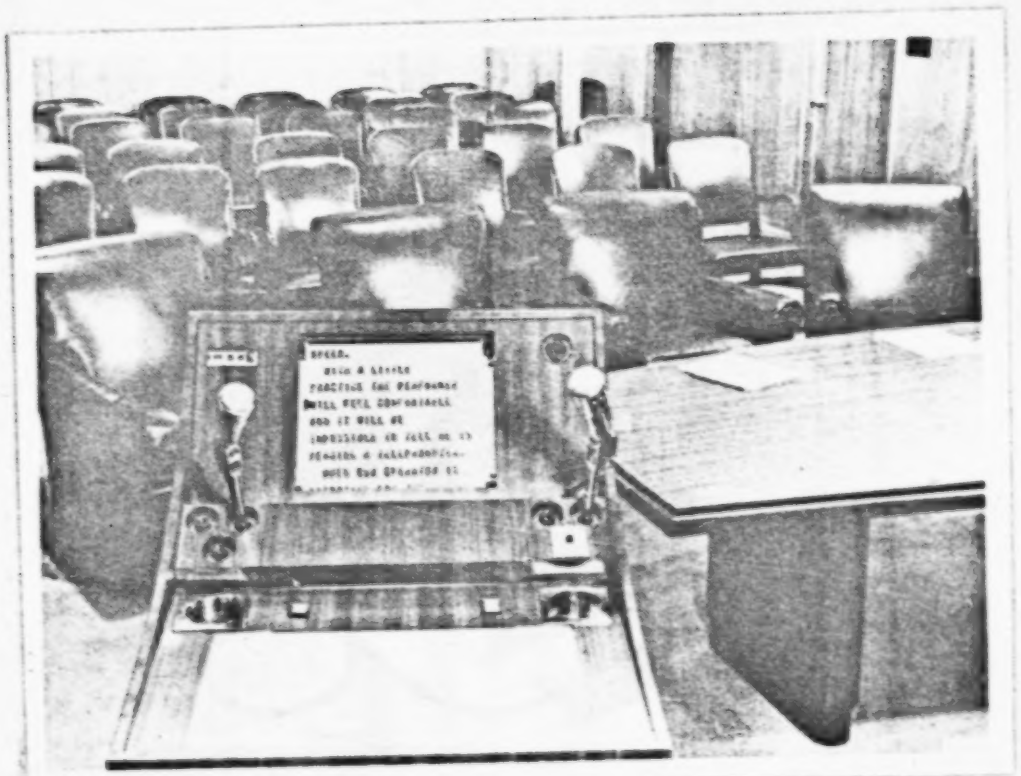
EDUCATIONAL TELEVISION AIDS

a paper roll device for ETV

359

1171

~~709~~



TELEPROMPTER — prompt unit built into desk

360

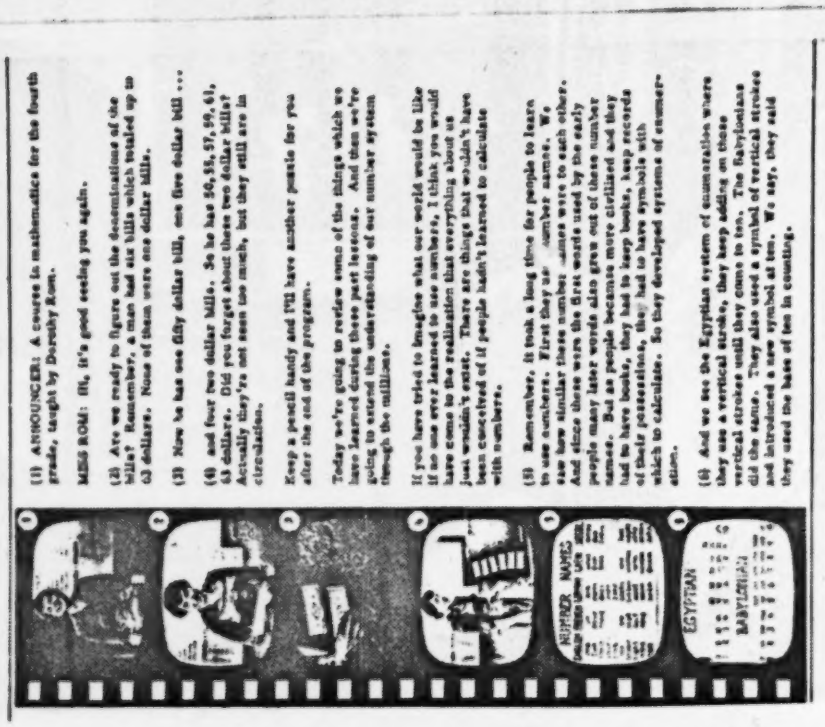
1172

Ch _____ Page _____

TELIT – a portable prompting unit.

361

690 1173



(1) ANNOUNCER: A course in mathematics for the fourth grade, taught by Dorothy Kem.

MISS KEM: Hi, it's good seeing you again.

(2) Are we ready to figure out the denominations of the bills? Remember, a man had six bills which totaled up to 63 dollars. None of them were one dollar bills.

(3) Now he has one fifty dollar bill, one five dollar bill ...

(4) and four two dollar bills. So he has 50,55,57,59,61, 63 dollars. Did you forget about those two dollar bills? Actually they're not seen too much, but they still are in circulation.

Keep a pencil handy and I'll have another puzzle for you after the end of the program.

Today we're going to review some of the things which we have learned during these past lessons. And then we're going to extend the understanding of our number system through the millions.

If you have tried to imagine what our world would be like if no one ever learned to use numbers, I think you would have come to the realization that everything about us just wouldn't exist. There are things that wouldn't have been conceived of if people hadn't learned to calculate with numbers.

(5) Remember, it took a long time for people to learn to use numbers. First they ga number names. We see how similar these number names were to each other. And since these were the first words used by the early people many later words also grew out of these number names. But as people became more civilized and they had to have books, they had to keep books, keep records of their possessions, they had to have symbols with which to calculate. So they developed systems of enumeration.

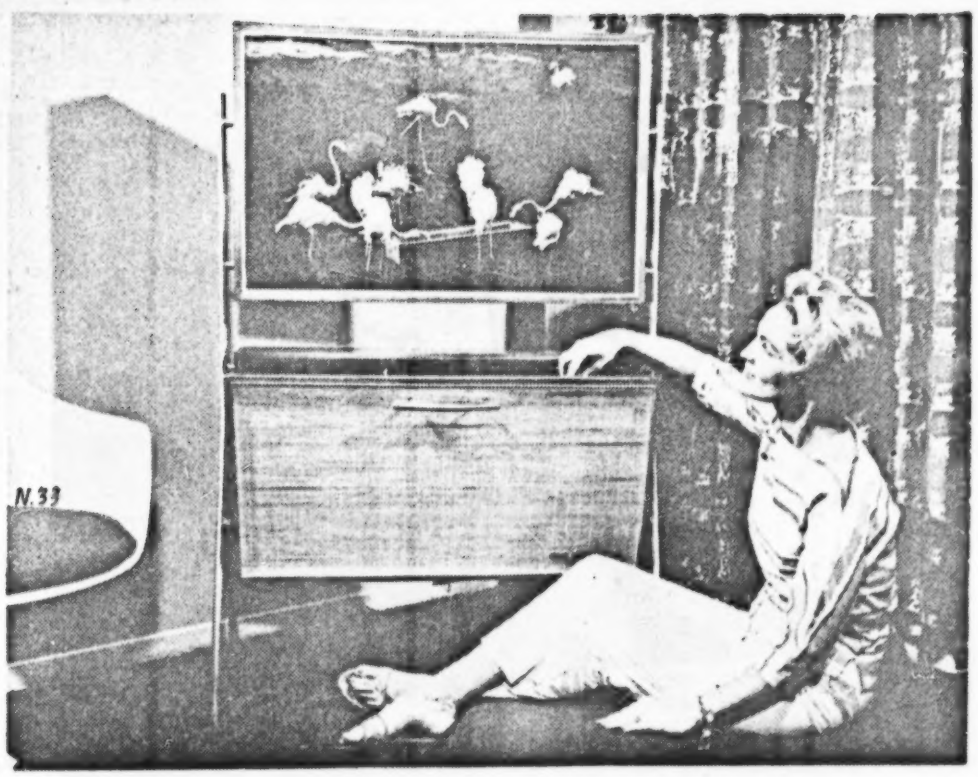
(6) And we see the Egyptian system of enumeration where they use a vertical stroke, they keep adding on those vertical strokes until they come to ten. The Babylonians did the same. They also used a symbol of vertical strokes and introduced a new symbol at ten. We say, they said they used the base of ten in counting.

FOR 363

"U.S. Tele-Service Corp. — inexpensive method of transcribing ETV programs for detailed study.

Neg No. 3

Ch. _____ Page _____



RADIO CORPORATION OF AMERICA

Fig 364 — TV set of the future will have flat screen and be no thicker than a picture frame

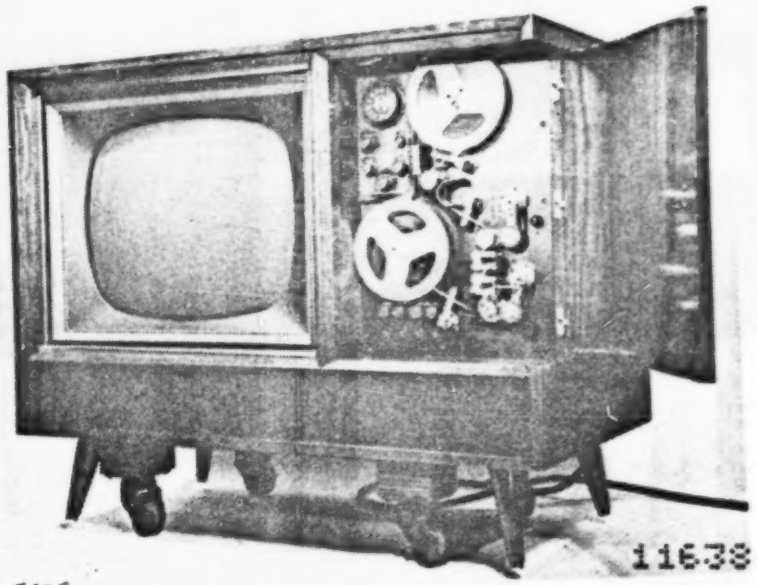
Neg. No. 1174

Ch _____ Page _____

RCA — concept of a portable TV receiver

Pic 365

Neg No. 27

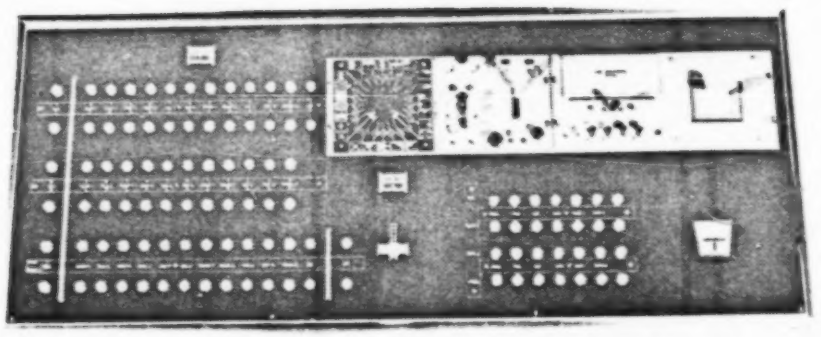


EA35

RCA — experimental video tape recorder for home use

366

246



VERTICAL INTERVAL SWITCHER CONTROL
PANEL WITH SPECIAL EFFECTS [illegible]

FIG 367 ~~BORGES~~ Blonder Tongue — SPECIAL EFFECTS CONSOLE demonstrates the ease of manipulating the electrical signal

REG. NO 264